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Volume 152 No. 14 October 6, 1947

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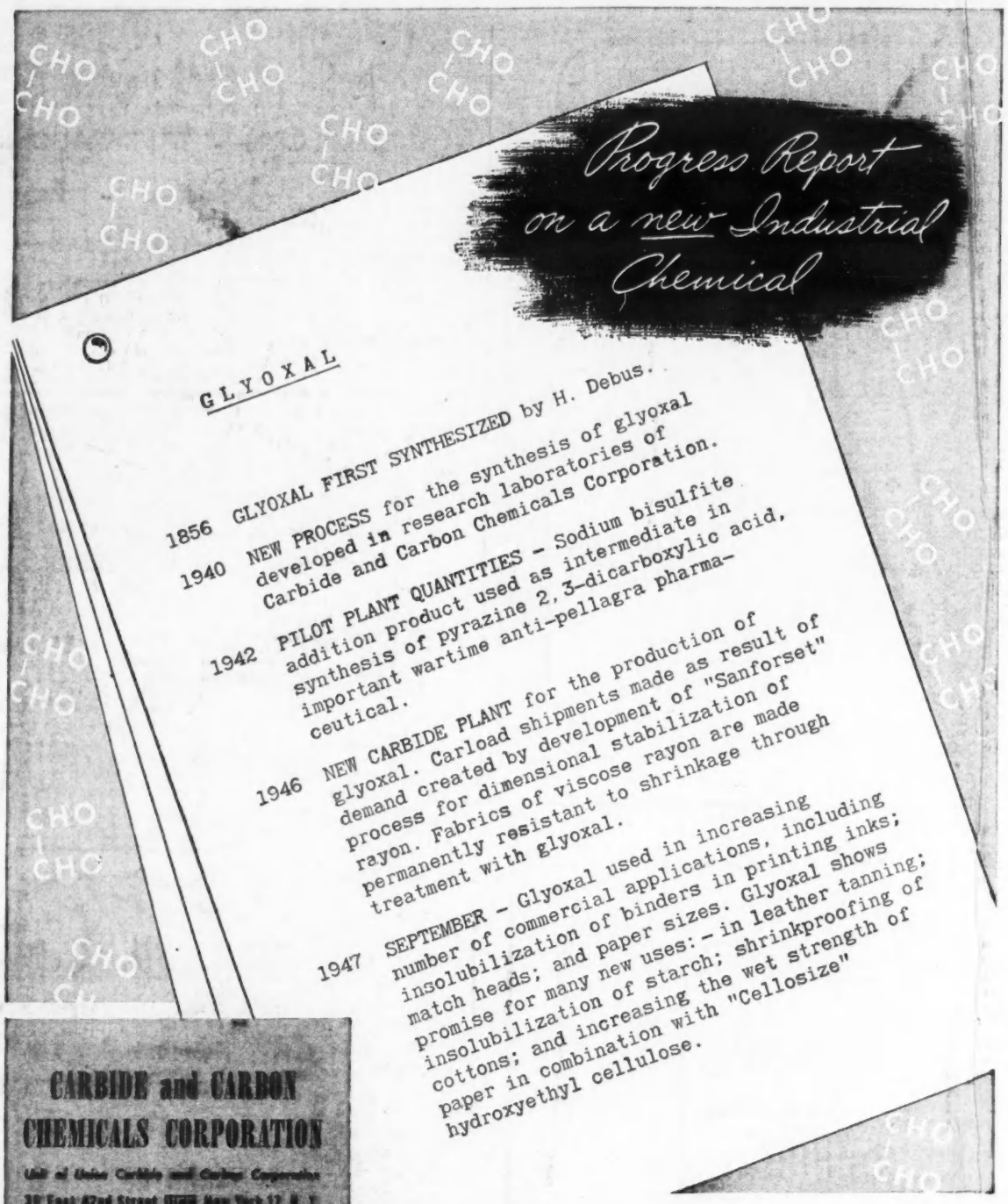
Progress Report
on a new Industrial
Chemical
GLYOXAL
1856 GLYOXAL FIRST SYNTHESIZED by H. Debus.
1940 NEW PROCESS for the synthesis of glyoxal developed in research laboratories of Carbide and Carbon Chemicals Corporation.
1942 PILOT PLANT QUANTITIES - Sodium bisulfite addition product used as intermediate in synthesis of pyrazine 2, 3-dicarboxylic acid, important wartime anti-pellagra pharmaceutical.
1946 NEW CARBIDE PLANT for the production of glyoxal. Carload shipments made as result of demand created by development of "Sanforset" process for dimensional stabilization of rayon. Fabrics of viscose rayon are made permanently resistant to shrinkage through treatment with glyoxal.
1947 SEPTEMBER - Glyoxal used in increasing number of commercial applications, including insolubilization of binders in printing inks; match heads; and paper sizes. Glyoxal shows promise for many new uses: - in leather tanning; insolubilization of starch; shrinkproofing of cottons; and increasing the wet strength of paper in combination with "Cellosize" hydroxyethyl cellulose.
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"Cellosize" is a registered trade-mark of Carbide and Carbon Chemicals Corporation

Oil, Paint and Drug Reporter

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Drug Trade Protests L.C.L. Rates Increase

OPD Washington Bureau

A spokesman for the Drug and Toilet Preparation Traffic Conference delivered that group's opposition to an increase in less-than-carload freight rates for door-to-door service within official classification territory at hearings held recently before the Interstate Commerce Commission in Washington.

Specifically, the spokesman read into the record of the proceedings a motion adopted by the executive committee of the conference which stated that "the conference is opposed to one scale of less-carload rates for station-to-station service, and another scale for door-to-door service."

The motion continued by saying that "if the carriers, on an adequate and complete record, can demonstrate the need for additional revenue to compensate for the overall transportation costs of less-carload freight door-to-door, such revenue should be derived from a general increase in the rate structure as a whole, applying on all commodities moving in interstate commerce, and not by saddling an unreasonable burden on any particular segment of the traffic which they now handle."

The hearings were a result of a petition by the railroads to the Interstate Commerce Commission for an increase in less-carload freight rates on the first four classes of goods moving in interstate commerce within official classification territory.

The spokesman stated that it is the consensus of opinion of the conference membership that if the carriers wish to embark on a policy of singling out each specific type of service or traffic for special treatment, "then it is not inappropriate for our industry to expect a downward revision in the carload rates applying within official territory on drugs, medicines and toilet preparations. This is based on the premise that such traffic now carries more than its fair share of the transportation burden of the country and should be treated equitably."

He declared that if the commission approved the scale of less-carload rates before it, or authorized two scales of rates, it would probably result in substantial loss of traffic to the rail carriers. He pointed out that it is the practice of the drug and toilet preparations industries to sell on a delivered basis, and that most companies would prefer to do all their shipping, even carload lots, with carriers who will economically provide door-to-door service.

Discussing the inference that had been made on the record that the increased costs of transportation could be passed along to the customer, the spokesman pointed out that drugs, medicines and toilet preparations are among the very few items which have not increased materially in price during the past ten years, and contrasted this with the fact that if the requested rate increases are granted they will bring to 100 percent the increase in such rates since 1931.

Steel Barrels Import Order Extended to Jan. 1

The government's overseas surplus stocks of steel shipping barrels, drums and pails, compressed gas cylinders and burlap bags and strips may be imported into the United States until January 1, 1948, under an order issued last week by the Office of Foreign Liquidation Commissioner. This authority was previously scheduled to expire October 1.

Under terms of the Surplus Property Disposal Act, government surpluses abroad could not be returned to this country except under certain conditions, one of them being a finding that the items are in critical short supply and urgently needed in this country. Such a finding was made last week by John R. Steelman, assistant to the President with respect to the above mentioned items as well as carbon steel and certain telephone and telegraph equipment, and the State Department ordered continuance of the import authorization through the remainder of the year.

In order to fall within the authorizations, the items must have been purchased and in transit to the United States on or before January 1, 1948. "In transit" means that the property has been delivered to or accepted by a carrier which has issued a through bill of lading thereon to a point in the United States.

Mexico Settles Oil Land Seizure Claims

OPD Washington Bureau

A final payment of $4,085,327 owed by the Mexican government in settlement of claims arising out of the expropriation of American oil properties in 1938 was made to the State Department last week by the Mexican Embassy.

The check handed to the State Department makes a total of $29,137,700 paid to this government by Mexico, covering the evaluated losses to the American owners estimated at $23,995,991 plus interest at 3 percent dating from March 18, 1938, when the properties were taken over.

The American companies participating in apportioned payments from this amount are Standard Oil Company of New Jersey, Standard Oil Company of California, Consolidated Oil Company, the Sabalo group, the Sea Board group, and their affiliated companies.

Salisbury Heads Atomic Energy Information Service

The Atomic Energy Commission has named Morse Salisbury, former director of information for the Department of Agriculture and present assistant secretary-general of the International Emergency Food Council, director of public and technical information.

In this capacity Mr. Salisbury will have the responsibility of insuring that all information issued to the public regarding the commission activities has been declassified and properly cleared with respect to restricted data as defined in the Atomic Energy Act.

Medical Service Corps Headed by Goriup

Lieut.-Col. Othmar F. Goriup, chief of the allotment and requirement branch of the medical personnel division in the Office of the Air Surgeon, was appointed the first chief of the recently created Medical Service Corps of the Army Medical Department with the rank of full Colonel, Brig.-Gen. George E. Armstrong, acting Surgeon General, announced last week.

The Medical Service Corps, which was established by the last Congress, for the first time will include commissioned specialists in scores of fields now closely allied to medicine, such as bacteriologists, entomologists, psychologists, sanitary engineers, pharmacists, chemists and electronics experts.

Nitrogen Fertilizer Exports To Europe May Be Increased

OPD Washington Bureau

The United States export quota of nitrogen fertilizers to western Europe may be increased slightly in the near future to provide additional assistance to this area in meeting its crop goals next year. The estimate is that Europe has the need for about 2,500 additional tons of nitrogen from the United States and that this could be made available without too great a strain on our supplies.

The President's committee on foreign aid, headed by Secretary of Commerce W. Averell Harriman, stressed the advisability of the United States increasing its nitrogen quota moderately in its report to the President last week on the 1947-48 grain export program. It is understood that early attention is to be given to the recommendation by the government.

The Harriman committee did not mention any figures on the additional tonnage that should be made available, merely calling attention to what it considers a "desirable" step from the long-range point of view of getting Europe back on its feet as quickly as possible. The committee's suggestion was contained in the closing paragraph of its report to the President as follows:—

"Although it is not relevant to the urgent problems of this winter, the committee believes that immediate attention should be given to the desirability of increasing exports of nitrate fertilizers from the United States to western Europe. With present rates of consumption, the shift of a moderate tonnage of nitrogen from use in the United States to use in Europe would make possible a large net addition to world food supplies. Such action would have to be taken within the next few months if additional fertilizer were to be available for application in the spring of 1948."

The estimate of 2,500 additional tons of nitrogen which is being suggested as the probable amount that the United States would be asked to add to its quota, was arrived at on the basis of the stated requirements of nitrogen contained in the report of the Paris conference on the Marshall plan, made public over the weekend by the State Department.

The United States export of nitrogen for the 1947-48 fertilizer year now totals 57,860 tons. This is to all areas, including 13,120 tons to China and Formosa, 3,900 tons to India, 2,350 tons to the Philippines, and 2,800

—Continued on page 43

German Chemical Plants Offered to U.S. Industry

OPD Washington Bureau

Availability of additional German chemical facilities for sale to United States industry has been reported by Foreign Liquidation Commissioner Maj. Gen. Donald H. Connolly. Two new offerings include portions of the Dynamit A. G. Geestacht-Krummel and equipment from the Paraxol at Lippoldsberg, which will be sold independently of each other. The equipment includes units for production of formaldehyde, pentarythritol and plastics.

Inventories of these plants and information concerning inspection and bids may be obtained from the general disposals division of OFLC in Washington. The closing date for sealed bids is December 10.

RFC Makes Further Blackstrap Molasses Sales

OPD Washington Bureau

Sales of three more cargoes of Cuban blackstrap molasses was announced last week by the Reconstruction Finance Corporation under competitive bids opened October 1.

E. I. du Pont de Nemours & Co. was high bidder on two of the cargoes of 1,800,000 gallons each, offering 24.65 cents a gallon for a shipment due October 20, and 26.52 cents for a shipment due October 29.

The third cargo, also of 1,800,000 gallons, went to United Distillers of America, Inc., at 24.65 cents a gallon. It is due to arrive October 22. Sales of blackstrap by the RFC now total 113,150,000 gallons.

Streptomycin Packaging Regulation Revised

The Food and Drug Administration has corrected its amendments of September 13 relating to its regulations for the packaging of streptomycin in ten gram containers. As carried originally in the Federal Register the amendments spoke of deleting references to containers of less than five grams. This was a typographical error. It should have been containers of less than 0.5 gram.

OIT Defines 'Firm Order' in Export Rules

OPD Washington Bureau

In view of the many inquiries as to the meaning of the term "firm order" as applied to current export regulations, the Office of International Trade of the Department of Commerce has given the following interpretation:—

"Firm order is interpreted to mean an order placed with an exporter in the United States by an importer in a foreign country which, if accepted by the exporter, will result in a binding contract between the exporter and the importer. While the terms of the order may be conditioned, such terms must be ascertainable and certain; for example (1) the terms of payment may provide a price dependent upon the market price at the time of delivery, or, (2) the time or place of delivery may be dependent upon events in the future, etc.

"In other words, a firm order is more than a mere business inquiry relating to the possible purchase of merchandise, although it need not be an agreement which can be presently executed. Furthermore, while orders may be conditioned upon the issuance to the exporter of an export license by OIT or the issuance to the importer of an import permit by his government, such orders would still be considered as firm orders within the meaning of these provisions."

Sodium Phosphate Off 'Positive' List

OPD Washington Bureau

The Office of International Trade announces that sodium phosphate, tri- or pyro- has been removed from the "positive" list of commodities that can only be exported under individual license. The material was placed under general license for export to Group "K" destinations by action of the agency effective Oct. 2.

Index Rises With Soaring Prices

To the soaring demand for expressed oils and tallows there was added last week a rise in the calls for starches and dextrins with the result that the OPD general price index was thrust to a new high level for the current movement. Aiding in the rise were the upping of market indexes for drugs and fine chemicals, heavy chemicals, coaltars and essential oils. Further influences were the announcement of higher prices on a rather large number of chemicals, the same becoming effective on October 1 and resulting from higher production costs.

Container troubles were no less than they had been—which was plenty bad. Scrapping of old tankcars was reported to be faster than the production of new replacements. High freight rates hit all markets in developing strength. The cost of producing many items has risen and signs do not point to any material curtailment of cost as a market influence at this time. Firm undertones prevailed in all markets save those which developed added strength of a sort substantial enough either to hold prices strong or actually to advance them.

Higher prices developed on coconut, corn, cottonseed, linseed, peanut, soybean, menhaden, tallow and tung oils. In the drug and fine chemical market, the influential price change was the advance in caffeine alkaloid but higher quotations were also noted on acetaldehyde, acetone, denaturing aldol, amyl acetate, crotonaldehyde, methylpentanediol, milk powder, and sucrose octaacetate. The rise in textile and leather chemicals came in acetic anhydride, edible albumen, potato starch, sago flour, anhydrous and crystalline sodium acetate, and tapioca flour. The heavy chemical price advances came in glacial acetic acid, phosphoric acid, barium hydrate and oxide, bleaching powder, calcium phosphate, carbon tetrachloride, chlorine, soda ash and caustic, and sodium sesquicarbonate. The trend in essential oils was mixed, coriander, dillweed, origanum and spearmint going up while Brazilian bois de rose, cardamom, lavender flower, and natural peppermint declined.

OPD Price Index

The Oil, Paint and Drug Reporter's relative record of prices for chemicals and related materials is currently as follows:—

Oct. 3, 1947	Sept. 26, 1947	Oct. 3, 1946
144.5	**143.3**	**139.4**

The base of the OPD Price Index is the average of prices in 1926 and 1936, those years representing extremes of price undulations in the interwar period.

OPD Index Monthly Averages

	1947	1946	1945	1941
January	150.9	135.3	133.0	107.8
February	151.9	135.4	133.2	110.3
March	154.9	135.2	132.7	111.9
April	152.3	134.9	132.2	115.5
May	145.9	135.1	132.5	118.2
June	143.9	135.4	132.5	121.9
July	142.5	137.7	133.5	125.5
August	140.4	136.6	133.9	128.2
Year's average	*147.8	138.8	133.3	123.2

* Eight months.

Brown Guest Speaker At Foreign Trade Dinner

OPD Washington Bureau

Lewis H. Brown, chairman of the board of Johns-Manville Corporation, New York, and author of the recent "Report on Germany," resulting from a mission undertaken at the request of Gen. Lucias D. Clay, head of the United States Army forces in Europe, will be principal speaker at the world trade dinner held in conjunction with the thirty-fourth national convention of the National Foreign Trade Council in St. Louis on October 20 to 22. The dinner will be in the Municipal auditorium on October 22.

Mr. Brown's mission in Germany was to determine what should be done to get German industry on its feet, on condition that Germany must never again be placed in a position to re-arm to start another war. His 250-page report, made public in summary form, was submitted to General Clay, the Department of State, members of a congressional committee studying conditions in Western Europe and to others in Washington.

Va.-Carolina Chemical Re-elects All Officers

Virginia-Carolina Chemical Company, Richmond, Va., re-elected A. Lynn Ivey, president at a recent meeting of its stockholders. Other officers chosen to serve an additional term were:—executive vice-president, Joseph A. Howell; vice-president, Edward Ryland; vice-president and treasurer, Irving D. Dawes; secretary and assistant counsel, George O. Osborne; assistant treasurer, Leslie W. Dunn; assistant secretary, Curtis B. Alderman, and auditor, Edgerton E. Franck.

Lehman Succeeds Bristol As TGA Vice-President

H. J. Lehman, president of the Wildroot Company, Buffalo, N. Y., has been elected vice-president of the Toilet Goods Association to succeed William M. Bristol jr., vice-president of Bristol-Myers Company, who has resigned. Mr. Lehman's position on the board of directors of the association has been filled by Joseph P. Hardie, vice-president of Bristol-Myers Company.

Soap Producers Meet In N.Y. January 28-29

The Association of American Soap and Glycerine Producers will hold its annual meeting at the Waldorf-Astoria hotel, New York, on January 28-29. James A. Reilly, of Colgate-Palmolive-Peet Company, is chairman of the convention committee and will announce details of the program as soon as it is established.

General Tire Appoints Carbon Black Sales Head

Edward V. Osberg has become associated with the executive sales staff of General Tire & Rubber Company, Akron, Ohio, to promote the sale of carbon black developed by the company during the war. Before joining General he was associated with the Wilmington Chemical Corporation, New York.

New York Paint Group To Meet October 16

The New York Paint, Varnish and Lacquer Association will hold the first meeting of its Fall season on October 16 at the Biltmore hotel. Motion pictures of the group's most recent sports outing will be shown and a program of entertainment has been arranged.

General Aniline Division Headed by C.T. White

General Aniline & Film Corporation has appointed Chandler T. White general manager of the General Aniline Works division. Mr. White, who joined the organization in 1920, has been plant manager of its Rensselaer, N. Y., plant.

Consulting Chemists Meet In New York October 28

The Association of Consulting Chemists and Chemical Engineers will hold its annual meeting at the Sheraton hotel, New York, on October 28. Guest speaker for the occasion will be Archie M. Palmer, of the National Research Council, Washington.

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Rubber Manufacturers Ass'n Names Sears Vice-President

W. J. Sears, recently resigned as chief of the rubber division of the Department of Commerce's Office of Materials Distribution, has been appointed vice-president of the Rubber Manufacturers Association. He entered government service in 1941 with the Office of Production Management, and served successively with the War Production Board, the Civilian Production Administration and OMD. Prior to the war Mr. Sears was with the United States Rubber Company in Detroit.

Oil Compact Commission To Meet December 4-6

Interstate Oil Compact Commission meeting will be held at the Biltmore hotel, Oklahoma City, Okla., on December 4 to 6. The meeting will coincide with the anniversary celebration of the Oklahoma City field, which was opened December 4, 1929.

Rayner Quits Oil Post

Charles Rayner resigned September 30 as adviser on petroleum policy to the State Department. He was appointed to the department from the oil industry by former Secretary Cordell Hull to take charge of the formulation and negotiation of the Anglo-American Oil Agreement, which has now been approved by the senate foreign relations committee with reservations, and ranks second on the priority list for action next session.

In his letter of resignation, Mr. Rayner reaffirmed his belief that "the need for an international agreement on petroleum with its increasing importance to the peace of the world has become so pressing and far-reaching that it would be difficult to exaggerate its importance to our national welfare." He anticipates no unfavorable reaction from the British government to the reservations made to the agreement by the senate committee.

SOCMA to Meet October 8 in N.Y.

The regular monthly luncheon meeting of the Synthetic Organic Chemical Manufacturers Association will be held at the Commodore hotel, New York, on October 8 at 12:30 p.m. The special order of business will be the election of a nominating committee for 1948 officers and members of the board of governors. The nominating committee slate, as presented by the naming committee, is as follows:—

Fred W. Wolff, E. I. du Pont de Nemours & Co.; W. F. George, Hooker Electrochemical Company; Fred J. Stock, Chas. Pfizer & Co.; Charles A. Myers, U. S. Industrial Chemicals, Inc.; R. F. Cotten, Victor Chemical Works, and N. B. Conley, Calco Chemical Division of American Cyanamid Company.

Foreign Sales Leads

Anyone interested in supplying the following inquiries with goods or information can get the full address of the inquirer by communicating—not by telephone, please—with the OPD office:—

Acetanilide, Paris, France (AM-11).
Ammonium sulphate, Calcutta, India (AM-6).
Butyl alcohol, Paris, France (AM-11).
Caustic soda, Campos, Brazil (AM-1); Sao Paulo, Brazil (AM-2); (AM-3).
Chemicals, Joao Pessoa, Brazil (AM-4); Yokohama, Japan (AM-7).
Cosmetics, London, England (AM-13).
Lubricants, Porto Alegre, Brazil (AM-5).
Mineral oils, lubricating, Turin, Italy (AM-14).
Paints, Porto Alegre, Brazil (AM-5); Johannesburg, Union of South Africa (AM-9).
Pharmaceutical products, Joao Pessoa, Brazil (AM-4); London, England (AM-13).
Phenol, synthetic, Turin, Italy (AM-12).
Phthalic anhydride, Paris, France (AM-11).
Polyvinyl chloride paste, Bradford, England (AM-10).
Refining plant, vegetable oils, Sao Paulo, Brazil (AM-8).
Soda ash, Sao Paulo, Brazil (AM-3).
Superphosphates, Calcutta, India (AM-6).
Varnishes, Porto Alegre, Brazil (AM-5).
Zinc oxide, Sao Paulo, Brazil (AM-3).

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Market Reports

Copra developed an easier tone becaus of strikes on the Pacific coast which hav delayed unloading of arrivals. Sellers of fered delivery on the Atlantic coast at $21 per short ton c.i.f. late in the week.

Crude cottonseed oil after selling at 24c became easier late in the week and con siderable business was booked at 23c. tank cars, f.o.b. southern mills

Soybean oil was irregular and tradin was noted at 22c. per pound, tankcars, f.o.b Decatur for October after reported sales a 23c.

Tallow was boosted 2c. per pound an active trading was reported in fancy at 22c per pound, loose, extra at 21¾c. and specia at 21½c. Large consumers were purchaser and were reported bidding for additiona quantities. Greases also were lifted 2c per pound for all grades.

Tung oil was firmer late in the week a offerings dried up for prompt and nearby shipments and quotations were nominal a 23¼c. to 24c. per pound, tankcars.

Solvay Revises Alkalis Less Carload Prices

The Solvay Sales Corporation, New York, revised its schedule of less than carload prices on soda ash and caustic soda on October 1. Soda ash in paper bags, per 100 pounds, Zone 1, is now quoted as follows:—light, $2.65; extra light, $2.75, and dense, $2.73. For light or dense in barrels add 40 cents per 100 pounds. Caustic soda per 100 pounds, Zone 1, is now:—solid, 700-pound drums, $4.20; flake, 100-pound drums, $5.60; flake, 400-pound drums or barrels, $4.60, and ground and powdered, 450-pound drums or barrels, $4.60.

Prices for Zone 2 are 15 cents per 100 pounds higher; Zone 3, 50 cents higher, and Zone 4, $1.10 higher than those posted for Zone 1 in all cases. Prices for 500 pounds or more are f.o.b. stock point, while for less than 500 pound prices are ex warehouse. Terms are net thirty days.

Niagara Alkali Revises Potash Chemicals Prices

The Niagara Alkali Company, New York, has revised prices on caustic potash and carbonate of potash, effective October 3. Contracts are now being written for 1948 delivery. Prices per 100 pounds in carload lots, large packages, are as follows:—

Caustic potash:—solid, $7.25; flake, $7.85; broken, $8.10; liquid in tankcars, $3.25, and in drums, $3.575. Less carload lots of walnut are $10 per 100 pounds.

Carbonate of potash:—calcined, $7.50; hydrated, $6; liquid in tankcars, $3.125, and in drums, $3.45.

The revised prices are from 3½ to 8 percent higher than the previous schedule and represent a total increase of from 11 to 16 percent on these basic chemicals since 1933.

Acetone, N-Propyl Alcohol Prices Revised by Celanese

The Celanese Chemical Corporation has announced new prices for acetone and n-propyl alcohol. Acetone, delivered in seller's tankcars, drums included, is now priced at 7½ cents per pound for tankcars; 9 cents per pound for carloads, and 9½ cents per pound for less carloads.

N-propyl alcohol prices have been reduced approximately 30 percent and are now quoted, f.o.b. Bishop, Tex., drums included, as follows:—tankcars, 10 cents per pound; carloads, drums, 11½ cents per pound, and less carloads, drums, 12½ cents per pound.

Chlordane Prices Reduced By Julius Hyman & Co.

Julius Hyman & Co., Denver, has reduced its prices for chlordane, effective October 1. The company states that increased volume along with improved production methods has made possible a horizontal reduction of 25 cents per pound for agricultural grade and 35 cents for refined grade. The new schedule sets carload prices at $1.50 per pound for agricultural and $1.65 for refined, and single drum prices at $1.70 and $1.85, respectively. Less carload prices have been lowered proportionately.

Surplus Materials and Equipment Offered

Chemicals and related materials currently offered as surplus by the War Assets Administration on closed bids to the dates given or at fixed prices as stated, include the following items:—

Caustic soda, 1,755 lbs., 10 cents per pound, Harrisburg, Pa., PHL-OL-617, November 7.

Cellosolve, 215 410-lb. drums, $28.70 per drum, Tulsa, Okla. (GP), TU-LR-SA-NO-73-363, October 30.

Colored smoke munitions, dyes recover.

—*Continued on page 6*

Texas City Blast Findings Reported

OPD Washington Bureau

The United States Coast Guard has issued a finding of its investigations of the April 16 Texas City disaster, officially censuring the shippers of the ammonium nitrate carried by the SS Grandcamp for failure to notify the vessel operator in advance of the characteristics of the shipment, and the operators of the vessel for failure to notify the Coast Guard of damage to the containers.

Both the shippers of the ammonium nitrate and the operators of the ship have been reported to the United States Attorney General by the Coast Guard, "looking toward assessment of penalties" for violation of the regulations, and the report will be submitted to the Interstate Commerce Commission for its action "relative to the use of a correct descriptive shipping name by the original shipper."

The report states that the philosophy of the Coast Guard regulations entitled "Explosives and Other Dangerous Articles on Board Vessels" is that they are self-regulating and policing. While it is true, it continues, that various governmental agencies prescribe rules covering interstate commerce in the interest of the public welfare and protection, it is a responsibility of private industry to take appropriate steps to protect and guard their property against the hazards encountered in the courses of trade.

The agency's report declared that the fire in the hold of the ship was "probably caused by unauthorized smoking in the hold," and that "the fire could have been extinguished in its early stages if water had been applied by means of the fire hoses of the Grandcamp immediately after discovery of the fire."

Ammonium Nitrate Study Committee Appointed

Maj. Gen. Philip B. Fleming, Federal Works Administrator and general chairman of the President's Conference on Fire Prevention, last week named a committee of five to study all phases of the problem of ammonium nitrate combustion when stored aboard ship.

The committee includes Billings Wilson, American Association of Port Authorities, New York City, chairman; Warren N. Watson, Manufacturing Chemists Association, Washington, D. C.; Dr. R. O. E. Davis, Department of Agriculture; Commodore H. C. Shepheard, United States Coast Guard, and Mathew M. Braidech, National Board of Fire Underwriters, New York City.

General Fleming was asked to name the committee at a meeting of representatives of states, municipalities, port authorities, fire prevention agencies, civic bodies and industrial groups directly interested in reducing the hazard incident to transport of ammonium nitrate on shipboard, held early in September.

Ammonium Nitrate Ports Sought by Government

Government officials are negotiating for the use of either of two ports for the loading and shipment of ammonium nitrate to overseas destinations in accordance with the fertilizer export program, it is learned. Since the Texas City disaster and the tightening up of regulations at the various ports not a ton of the material has been shipped out of the country by vessel except that being produced by the army.

It is understood that the two ports under consideration are Braithwaite, La., which is about 40 miles down the Mississippi from New Orleans, and Fort Tampa, Fla., which is the principal port for the shipment of Florida phosphate rock. Of the two, Port Tampa is considered the most desirable because it has two berths and thus makes possible the speedier movement of the material. The bad feature, however, is the long rail haul from the producing plants to the port.

The port of Braithwaite has only a single berth. It was used for the movement of explosives during the war, but presently is in need of considerable repairs. It is understood that the Coast Guard will issue a permit for use of either of the two ports selected.

Foreign Market Lists

Lists of foreign outlets for chemicals and related materials and consumer goods recently compiled by the Commercial Intelligence Division of the United States Department of Commerce include the following, which are available from the division at $1 for a list for any one country:—

Laundry and dry-cleaning industry, Greece.

Oils (animal, fish, vegetable) importers, dealers, producers, refiners and exporters, El Salvador.

Petroleum industry, Costa Rica, Palestine.

Cabot Vice-President

Owen J. Brown jr., general sales manager of Godfrey L. Cabot, Inc., carbon black manufacturer, Boston, has been elected a vice-president of the company. Mr. Brown joined the organization in 1935 and ten years later was placed at the head of the technical sales and service department.

Bristol Labs. Forms Canadian Subsidiary

Bristol Laboratories, Inc., pharmaceutical manufacturer, Syracuse, N. Y., has formed a subsidiary company, Bristol Laboratories of Canada, Ltd., to handle sales of its entire line in Canada. The new firm will maintain offices at 286 St. Paul street, Montreal, and will have sales representatives in the principal cities of the dominion.

Henry P. Bristol has been named chairman of the board of the new company and James G. Stenhouse is its president. Other officers include vice-presidents Frederic N. Schwartz, Richard A. Anderson, J. Harmon Andrews, James P. Gledhill and Dr. Philip I. Bowman; treasurer, Robert C. Gasen; comptroller, Walter H. Kamp, and secretary, George S. McMillan.

American-Marietta Adds Three New Executives

Ray Sanders has been named general manager of the Pacific Chemical Company and of Chlorine Solutions, both of Los Angeles, and both divisons of the American-Marietta Company, Chicago. Mr. Sanders recently resigned as vice-president and general manager of Turco Products, Inc., with which he had been associated since 1932.

American-Marietta also has appointed Wilbur N. Hill general superintendent of its Kankakee plant, and R. Kenneth Ward, general manager of its sewall division. Mr. Hill formerly was assistant superintendent of the Nubian division of the Glidden Company. Mr. Ward, previously for twenty-one years with the Seidlitz Company, Kansas City, succeeded William C. McCaslin, who has been named a vice-president and transferred to Chicago.

Acheson Buys English Firm

The Acheson Colloids Corporation, Port Huron, Mich., has purchased the entire operating assets of the E. G. Acheson, Ltd., London and Plymouth, England. The purchase was made through a wholly-owned subsidiary, Acheson Colloids, Ltd., of London.

Printing Ink Industry's Future Business Viewed Optimistically

OPD Washington Bureau

A record attendance of more than 220 representatives of the printing ink producers and consumers of their products turned out for the thirty-third annual meeting of the National Association of Printing Ink Makers at the Shoreham hotel, Washington on October 1 to 3. The theme of the meeting was "Where Do We Go From Here," which drew from speakers optimistic predictions of a continued high level of business for several years, reports of much progress being made in research on the problems that beset both the producers and printers, and a discussion of conditions of the ink industry in Germany that allayed any fears that Germany would become an important competitor again at any forseeable time in the future.

Work that has been done in the field of research and development on petroleum drying oils and resins was detailed at some length by Dr. F. J. Smith, of the Pan-American Petroleum & Transport Company, while laboratory work on alkyd resins, with emphasis on their functional concepts, was reviewed by Dr. C. J. Meeske, director of resin research, Reichhold Chemicals, Inc.

Pointing up his talk with samples and slides Dr. Smith reported that much progress on developing drying oils from a petroleum base has been made in the past several years and that it has been found that they can be used with or as an alternate to linseed oil. Another important factor, he said, is that the price of these petroleum drying oils is only about one-third the cost of linseed oil. The big problem in connection with these oils is odor, but that has been licked, he added, and application already has been made by the National Printing Ink Institute for patents on a process for producing an odorless oil.

German Ink Industry

Dr. Andries Voet research director for the J. M. Huber Corporation, New York, exploded the myth of spectacular developments in the German ink-making industry. Reporting the findings of his official investigation for the Department of Commerce he said that the past twelve years have been almost completely void of important German contributions to the printing ink industry.

"The primary objective of this tour into Germany's major plants," said Dr. Voet, "was to expose to the United States ink industry the details of much publicized German processes. We found that since 1935, when Germany embarked on its war economy, most research has been conducted by inexperienced girls, using obsolete equip-

—*Continued on page 77*

Chemical Industry Medal Awarded to G.W. Merck

George W. Merck, president of Merck & Co., Rahway, N. J., who directed the nation's extensive research on biological warfare during World War II, has been awarded the

George W. Merck

Chemical Industry Medal for 1947, it is announced by Cyril S. Kimball, of Foster D. Snell, Inc., New York, chairman of the American section of the Society of Chemical Industry.

Mr. Merck was cited for "outstanding accomplishments" by Merck & Co. in the field of pharmaceuticals, under his leadership. The medal will be presented at a dinner in the Commodore hotel, New York, on November 7, at which John P. Marquand, author; Dr. A. N. Richards, vice-president in charge of medical affairs of the University of Pennsylvania, and Mr. Merck will speak.

A member of the committee on drugs and medical supplies of the National Research Council from 1942 to 1945, Mr. Merck was named director of the War Research Service when that agency was established early in 1942 to take charge of the biological warfare program. Later, when the program was placed under the Army's Chemical Warfare Service, he became special consultant to the Secretary of War and chairman of the United States Biological Warfare Committee. He resigned in November, 1945.

Mr. Merck is a director of the Colgate-Palmolive-Peet Company, the United New Jersey Railroad & Canal Company, and the New York & Long Branch Railroad Company. He is president of the board of trustees of the Merck Institute for Therapeutic Research, chairman of the excutive committee of the Manufacturing Chemists' Association, and a member of the governing body of the National Industrial Conference Board. Since 1939, Mr. Merck has been a member of the chemical advisory committee of the Army and Navy Munitions Board.

Quaker Chem. Names Mosher Organic Research Head

Quaker Chemical Products Corporation, Conshohocken, Pa., has appointed Dr. Hugh C. Mosher director of organic research. He was previously associated with the Onyx Oil & Chemical Company, where he was vice-president in charge of textile research and development.

Dr. Mosher is the holder of many patents in the field of textile processing and finishing, and in 1930 was awarded the American Association of Textile Chemists and Colorists prize for the most valuable contribution to the chemistry of textiles. He has served as assistant professor of chemistry at the University of Nevada, chief chemist of the U. S. Testing Company and research chemist of the Cheney Brothers Silk Mills.

Blaw-Knox Adds McCubbin To Sales, Engineering Staff

Blaw-Knox Company, Pittsburgh, Pa., has added Keator McCubbin to its staff to direct the engineering and sales of plants and equipment in the oils and fats field. He will handle activities in oilseed handling and milling and oil processing, which are being expanded to include solvent extraction processes. Mr. McCubbin was formerly with the A. E. Staley Manufacturing Company.

Charles Pfizer Co. Buys Citro Chemical

Charles Pfizer & Co., fine chemicals firm, New York, has acquired the Citro Chemical Company from the Emerson Drug Company, Baltimore. Citro Chemical will continue to produce acetanilid, acetophenetidin and caffeine under the direction of its president, Charles P. Walker, jr., and his staff.

Newport Industries Agent For Naval Stores Group

The Wood Naval Stores Export Association has appointed Newport Industries, Inc., New York, exclusive agent for foreign distribution of its products. Principal exports will be wood rosins, steam distilled wood turpentine, steam distilled pine oil, and dipentine.

Washington Talks It Over

The OPD Observer

In the reorganization of the National Labor Relations Board to conform to the requirements of the Taft-Hartley Act, several changes, not visible from the outside, have taken place in the internal functioning of the agency which are of considerable importance to industry. One is the abolition of the review staff and the other is a new rule that trial examiners shall not confer with the board regarding their cases.

These internal changes have for their purpose placing the board members a little further apart from the prosecuting staff of the agency so that the board will operate more in the nature of a quasi-judicial body than it has in the past. Until the review staff was abolished its members went over the transcripts of hearings, briefed them for the board and often would prepare written decisions for the board.

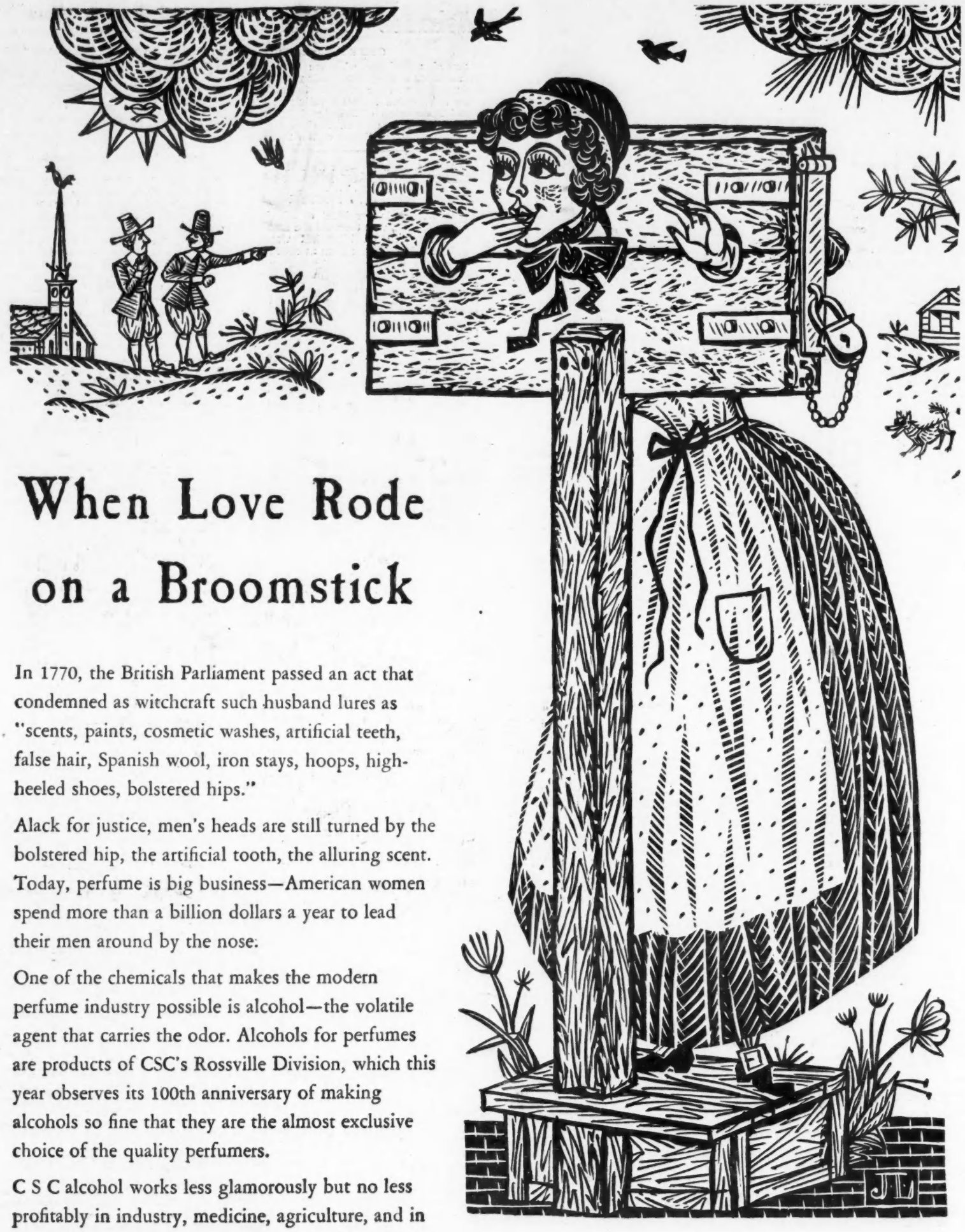
This led to charges at times that some of the board's decisions were in actual fact review staff decisions. This charge, although exaggerated, on occasions had an element of truth, in that bright and strong-willed review staff members were able, intentionally or otherwise, to influence all too much certain board decisions. The board wasn't compelled to rely on the work of the review staff in reaching its decisions, but in the pressure of work this naturally would be the case in some instances.

The new rule that bars the trial examiners from conferring with the board carries out the spirit of the Administrative Procedures Act. This means, in actual practice, that case conferences formerly held by board members with the examiners and review staffs and legal counsel who had handled the case, frequently with all in attendance, are now a thing of the past.

Special Session Subjects

If President Truman calls Congress into special session sometime late next month,

—*Continued on page 36*



When Love Rode on a Broomstick

In 1770, the British Parliament passed an act that condemned as witchcraft such husband lures as "scents, paints, cosmetic washes, artificial teeth, false hair, Spanish wool, iron stays, hoops, high-heeled shoes, bolstered hips."

Alack for justice, men's heads are still turned by the bolstered hip, the artificial tooth, the alluring scent. Today, perfume is big business—American women spend more than a billion dollars a year to lead their men around by the nose.

One of the chemicals that makes the modern perfume industry possible is alcohol—the volatile agent that carries the odor. Alcohols for perfumes are products of CSC's Rossville Division, which this year observes its 100th anniversary of making alcohols so fine that they are the almost exclusive choice of the quality perfumers.

C S C alcohol works less glamorously but no less profitably in industry, medicine, agriculture, and in the anti-freeze that protects your car in winter. It is one of more than 200 chemicals produced by C S C.

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Ethylsulpho-N-dodecyl Oxyethyl-amide

Adhesives—Plasticizer (Brit. 520162) in adhesive compositions containing cellulose esters or ethers.

Ceramic—Plasticizer (Brit. 520162) in compositions, containing cellulose esters or ethers, used as coatings for protecting and decorating ceramic articles.

Chemical—Solvent and plasticizer (Brit. 520162) for cellulose esters and ethers.

Cosmetic—Plasticizer (Brit. 520162) in nail enamels and lacquers containing cellulose esters or ethers as base material.

Electrical—Plasticizer (Brit. 520162) in insulating compositions, containing cellulose esters or ethers, used for covering wire and in making electrical machinery and equipment.

Glass—Plasticizer (Brit. 520162) in compositions, containing cellulose esters or ethers, used in the manufacture of non-scatterable glass and as coatings for decorating and protecting glassware.

Leather—Plasticizer (Brit. 520162) in compositions, containing cellulose esters or ethers, used in the manufacture of artificial leathers and as coatings for decorating and protecting leathers and leather goods.

Metal-Fabricating—Plasticizer (Brit. 520-162) in compositions, containing cellulose esters or ethers, used as coatings for protecting and decorating metallic articles.

Miscellaneous—Plasticizer (Brit. 520162) in coating compositions, containing cellulose esters or ethers, used for protecting and decorating articles of various kinds.

Paint, Varnish, and Lacquer—Plasticizer (Brit. 520162) in paints, varnishes, lacquers, enamels and dopes containing cellulose esters or ethers.

Paper—Plasticizer (Brit. 520162) in compositions, containing cellulose esters or ethers, used in the manufacture of coated papers and as coatings for decorating and protecting articles made of paper or pulp

Photographic—Plasticizer (Brit. 520162) in making films from cellulose esters or ethers.

Plastics—Plasticizer (Brit. 520162) in making laminated fiber and molded articles, and plastics from or containing cellulose esters or ethers.

Resins—Plasticizer (Brit. 520162) in making artificial resins from or containing cellulose esters or ethers.

Rubber—Plasticizer (Brit. 520162) in compositions, containing cellulose esters or ethers, used as coatings for protecting and decorating rubber goods.

Stone—Plasticizer (Brit. 520162) in compositions, containing cellulose esters or ethers, used as coatings for protecting and decorating artificial and natural stone.

Textile—Plasticizer (Brit. 520162) in compositions, containing cellulose esters or ethers, used in the manufacture of coated fabrics.

Wood—Plasticizer (Brit. 520162) in compositions containing cellulose esters or ethers, used as protective and decorative coatings on woodwork.

3-Ethyl-5-gamma-(1-piperidyl)-allylidene-2-thio-2:4-oxazoledione

Photographic—Dye (Brit. 517769) for photographic films (gives yellow colors in water, methanol, or ethyl alcohol).

Sensitizer (Brit. 517769) in silver halide emulsions for photographic films.

Green Cotton Wax

(Arkansas Green Cotton Wax)

Polish—Suggested for use as high-melting point wax in polishes.

Hexaethyl Bistrithio-orthoadipate

Chemical—New organic compound held (Brit. 556815) to be undoubtedly interesting to chemists.

Hydroxyphenylhydrazin

Insecticide and Fungicide—Claimed (Brit. 492306) as anticryptogamic agent.

Wood—Anticryptogamic agent (Brit. 492-306) in wood-preserving compositions.

Soybean Purchase Rules Detailed

OPD Washington Bureau

Detailed regulations covering the loan and purchase agreement for the 1947 crop of soybeans were announced last week by the Department of Agriculture. The program in general terms was first announced last February.

Under the program, loans will be available on the 1947 soybeans from the time of harvest through January 31, 1948, and purchases will be made from harvest through June 30, 1948. Loans and purchases are at the basic rate of $2.04 a bushel of eligible Class I (yellow) and Class II (green) soybeans, containing 14 percent moisture and grading No. 2 or better, stored in approved farm-storage or sold and delivered to normal delivery points.

Scientific Exporters Ass'n Gets $2,500,000 Credit

OPD Washington Bureau

A revolving credit of $2,500,000 to the United States Scientific Export Association has been authorized by the Export-Import Bank. Members of the association are manufacturers and exporters of scientific laboratory equipment.

The credit is intended to assist the association in putting into effect a plan whereby the association itself may extend credit to its foreign customers who make numerous small purchases. The terms of the credit provide that the association may extend credit at its own discretion to its foreign customers in limited amounts, provided the customers are in countries previously agreed upon between the association and the bank.

The association will extend credit to foreign customers for only a portion of the purchase price of the American goods and the remainder is to be paid for in dollars before delivery. Interest will be charged at 4½ percent. The maturity of customer obligations will range from a short term to a maximum of five years.

A.Ph.A. Taking Nominations For Iodine Chemistry Prize

OPD Washington Bureau

Nominations are now being received by the American Pharmaceutical Association for the iodine educational bureau award recognizing outstanding research in the chemistry and pharmacy of iodine and its compounds as applied to pharmacy or medicine. Any member of the association may propose a nominee by submitting specific identification of the work to be considered in the competition, a biographical sketch of the nominee, including date of birth, and a list of his publications. Eight copies of the nominations must be submitted to the secretary of the association, Dr. Robert P. Fischelis, 2215 Constitution Ave., N. W., Washington 7, D. C. To be eligible for the 1948 Award, nominations must be received before January 1.

Heads Research Laboratories

Dr. Maurice L. Moore has been appointed director of research laboratories for Smith, Kline & French Laboratories, Philadelphia, to succeed the late Dr. Walter G. Karr. Dr. Moore was previously assistant director of research with Frederick Stearns & Co., and is the retiring chairman of the division of medicinal chemistry of the American Chemical Society.

Chemical Engineers Hear Vail on War Elimination

Professional people know that the material benefits of science will be lost to coming generations unless there is brought along a succession of highly trained and keenly interested men and women who can and will develop the competence to understand the progressively more difficult findings and to make use of them, James G. Vail, vice-president of the Philadelphia Quartz Company, told the regional meeting of the American Institute of Chemical Engineers in Buffalo, N. Y., last week.

"In the wake of wars there are always communities economically depressed and spiritually hopeless who have slipped far down the scale in their ability to respond," Mr. Vail declared. "They have become dull, tired, apathetic. We can all agree that to meet the challenge of maintaining advances already gained in science we must have people who are not only learned and vigorous but motivated to spend great effort to advance the frontiers."

In discussing the need for the elimination of war, Mr. Vail said there is a special challenge to those who made their successes in technology to recognize the spiritual factors without which technology breaks down, and

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Oil Trades Ass'n to Hold Annual Banquet October 30

The Oil Trades Association of New York will hold its annual banquet at the Waldorf-Astoria hotel on October 30. Reservations will be accepted until October 27 by Gordon L. Benjamin, 17 Battery place, New York.

Synthetic Organics Output Off in 1946; Sales Gain

OPD Washington Bureau

The United States Tariff Commission has issued a preliminary report on the 1946 production and sales in the United States of synthetic organic chemicals and their raw materials which indicates that production was 2.4 percent lower than 1945, but that sales and sales value registered a 1.5 percent and a 2.8 percent, respectively, gain over that of the preceding year.

Finished products are grouped in the report according to use as dyes, lakes and toners, plastics materials, synthetic elastomers, plasticizers, rubber-processing chemicals, surface-active agents, flavor and perfume materials, medicinals, and miscellaneous chemicals.

Under the heading of cyclic organic chemicals the report shows that production was 2½ percent higher in 1946 than in 1945; sales were 9.6 percent higher last year than in the previous year, and sales value showed a gain of 14.9 percent in 1946. Decreases were reported for acyclic organic chemicals, with production off 4.9 percent in 1946, as compared with 1945; sales down

—*Continued on page 60*

General Electric Offers Scientific Fellowships

Aid to college and university graduates who wish to undertake or continue research work in scientific and industrial fields has been announced by the General Electric Company for the twenty-fourth consecutive year. Applications now are being accepted for the scholastic year 1948-1949 for grants under the $1,000,000 G-E Educational Fund, from the income of which the fellowships are awarded.

Applications for the fellowships, which must be filed by January 1, have been distributed to libraries of engineering schools, department heads of electrical and mechanical engineering schools, professors of electrical and mechanical engineering, physics, chemistry and metallurgy, and deans of graduate schools. Fellowships are awarded in the fields of electricity, physics, physical chemistry, industrial management, engineering, physical sciences, and any other scientific or industrial field.

Naval Stores Industry Breakfast November 7

A breakfast meeting of men in the naval stores industry will be held at 8 a.m., November 7, at the Traymore hotel, Atlantic City, N. J., during the convention of the National Paint, Varnish and Lacquer Association. Short summaries of conditions of the industry will be presented, with Charles F. Guignon, of Guignon & Green, outlining the gum picture, and Ernest Holdman, of Newport Industries, Inc., giving highlights of the wood industry.

Book of the Week

The flowers of the field and the fruits of grove, copse, and woods have always been the source of mankind's decoratings, for the nose as well as for the eye. Nature's laboratories and workshops have set up high standards in colors and in aromas. Man has done no better, whatever his often wierd productions.

The story of the odorous contributions, direct and via fabrication, of natural production has been concisely and informatively told in a *book of French origin, now translated into English and published in the United States. This book opens helpfully with a historical summary of natural aromatics, to which is appended a comprehensive bibliography. This introduction passes into a treatise on the development of technics for the extraction of odorous principles, and then takes up the various steps of such processing—all with much bibliographic complement. The second section treats the processes of manufacture in detail enough to be instructive. The next step is into the chemical composition and analysis of the products which are perfumery's materials.

Almost half of the book's 338 pages is occupied by monographs on natural perfumes, animal, as well as vegetable. These comprise scientific identifications, methods of extraction and yields, characteristics of the extractives, and analyses of their composition. Again the bibliographic references are notable, and illustrations help in various ways.

* NATURAL PERFUME MATERIALS," a Study of Concretes, Resinoids, Floral Oils, and Pomades. By Dr. Y. R. Naves and G. Mazuyer, with a preface by Prof. H. Gault, of the Faculty of Sciences, University of Paris. Translated from the first French edition by Edward Sagarin. Published by Reinhold Publishing Company, 330 West Forty-second street, New York 18, at $6.75.

Association Meeting Dates

Association of American Soap and Glycerine Producers, Waldorf-Astoria hotel, New York, January 28-29.

Association of Consulting Chemists and Chemical Engineers, Sheraton hotel, New York, October 28.

American Association of Feed Control Officials, Shoreham hotel, Washington, D. C., October 20-22.

American Association of Textile Chemists and Colorists, Congress hotel, Chicago, October 23-25.

American Institute of Chemical Engineers, Detroit, November 10-12.

American Oil Chemists' Society, Edgewater Beach hotel, Chicago, October 20-22.

American Pharmaceutical Manufacturers Association, Waldorf-Astoria hotel, New York, December 15-17.

Association of American Fertilizer Control Officials, Shoreham hotel, Washington, D. C., October 21.

Association of Official Agricultural Chemists, Shoreham hotel, Washington, D. C., October 20-22.

Boston Conference on Distribution, Statler hotel, Boston, October 20-21.

Chemical Industries Exposition, Grand Central Palace, New York, December 1-6.

Combined Pharmaceutical Contact Committee, Statler hotel, Washington, D. C., November 13-14.

Commercial Chemical Development Association, Cleveland, Ohio, October 28.

Federal Wholesale Druggist Association, French Lick Springs hotel, French Lick, Ind., October 8-10.

Federation of Paint & Varnish Production Clubs, Ambassador hotel, Atlantic City, November 7-10.

National Association of Insecticide & Disinfectant Manufacturers, Lord Baltimore hotel, Baltimore, December 1-3.

National Association of Retail Druggists, Sherman and Morrison hotels, Chicago, October 12-16.

National Association of Wholesalers, Pennsylvania hotel, N. Y., October 6-7.

National Barrel & Drum Association, Pennsylvania hotel, New York, November 3-5.

National Fertilizer Association, Atlanta-Biltmore hotel, Atlanta, Ga., November 10-12.

National Foreign Trade Council, St. Louis, October 20-22.

National Paint Salesmen's Association, Madison hotel, Atlantic City, October 16-18.

National Paint, Varnish & Lacquer Association, Ambassador hotel, Atlantic City, November 11-14.

National Pest Control Association, Bellevue-Stratford hotel, Philadelphia, Pa., October 27-29.

National Wholesale Druggists Association, Ambassador hotel, Atlantic City, N. J., October 18-23.

New York Board of Trade, Waldorf-Astoria hotel, October 23.

Oil Trades Association, Waldorf-Astoria hotel, New York, October 27.

Pacific Chemical Exposition, San Francisco, October 21-25.

Packaging Machinery Manufacturers Institute, New York, December 3.

Society of Cosmetics Chemists, Biltmore hotel, Sheridan hotel, Springfield, Mass., October 6-7.

4 BAKER CHEMICALS For Agricultural Use

DDT

Dichloro-diphenyl-trichloroethane

For household and agricultural pest sprays. Fine granular product approaching a white color, with minimum setting point of 89° C. Uniform in color, makes a clear solution, and free flowing and uniform in particle size. Available in 25, 50, 100 and 200-lb. containers.

2,4-D

Formulations

For lawn and agricultural weed killers. Baker's 2,4-D formulated dry powders and liquid concentrates are ready for packaging by the distributor. Produced in types readily diluted by the user for specific herbicidal purposes. 2, 4-D acid and sodium salt available also in bulk containers for processors.

CS_2

Carbon Disulfide (Bisulfide)

For herbicides, fungicides, fumigants. Highly volatile, extremely penetrating. Manufactured by an unique electro-thermic method, with continuous rather than batch distillations, which insures high uniformity. Available in 50, 100 and 500-lb. drums.

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Benzene Hexachloride

New insecticide, ovicide, and larvicide for controlling livestock pests—horn flies, stable flies and bot flies—cotton insects such as boll weevil, cotton aphis, cotton fleahoppers, and fruit and vegetable aphis. Available in bulk containers.

For more information, prices, etc., write to J. T. Baker Chemical Co., Executive Offices, Phillipsburg, New Jersey

Baker's Chemicals

C. P ANALYZED · FINE · INDUSTRIAL

Current Market Quotations

Chemicals and Related Materials

October 3, 1947

Unless otherwise indicated, listings are first-hand quotations on large lots, f.o.b. New York. Changes and trends are noted in the market reports, with other informative comment. The locations of these reports are given in the table of contents on page 4.

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A

Acacia (see Gum, arabic).
Acetaldehyde, 99%, dms., 55 gals. works..lb. .12 - .13
5 and 10 gals., works.....lb. .16 - —
tanks, works .....lb. .10½ - —
Acetaldol (see Aldol).
Acetamide, CP, fib. dms.....lb. .65 - .75
tech., fib. dms.....lb. .38 - .43
Acetanilide, tech., bbls., c.l.....lb. .19 - —
l.c.l. .....lb. .20 - .25
kgs. .....lb. .25 - —
USP, bbls., 2,000-lb. lots.....lb. .40 - .41
smaller lots.....lb. .41 - .42
Acetic anhydride, dms., c.l., frt. all. E. .....lb. .13½ - —
l.c.l., frt. alld. E.....lb. .14½ - —
tanks, frt. alld. E.....lb. .12 - —
Acetoacetanilide, bbls., dms.....lb. .57 - .60
Acetone, CP, dms., c.l., dlvd.....lb. .09 - —
l.c.l., dlvd. .....lb. .10 - —
tanks, dlvd. .....lb. .07½ - —
Methyl (see M).
Acetonitrile, dms., c.l., works.....lb. .42 - —
l.c.l., works.....lb. .50 - —
smaller containers, works.....lb. .55 - .60
Acetophenetidin, USP, bbls., kgs., 1,000-lb. lots. lb. 1.00 - —
dms. .....lb. 1.05 - 1.10
Acetophenone, cns., dms.....lb. 1.50 - 1.75
Acetyl chloride, cbys., works.....lb. .60 - —
Acetyltributyl citrate, dms.....lb. .43 - .51
smaller pkgs. .....lb. .54 - —
Acetyltriethyl citrate, dms.....lb. .36 - .44
smaller pkgs. .....lb. .47 - —
Acid, abietic, dms., c.l., works.....lb. .07½ - —
Acetic, con'l or redist., 28% bbls .. 100 lbs. 3.78 - 4.08
50% bbls.....100 lbs. 7.56 - 7.81
70% bbls.....100 lbs. 9.45 - 9.70
80% bbls.....100 lbs. 10 80 - 11.05
glacial, synthetic, C.P., dms., works 100 lbs. 13.50 - 14.00
tanks, works .....100 lbs. 8.12 - 8.62
tech., dms., works.....100 lbs. 10.50 - 11.00
USP, dms., works.....100 lbs. 11.50 - 12.00

Acetic acid price ranges above are c.l. and l.c.l. quantities. Carboys and cases are 50c. per 100 lbs higher.

Acetic anhydride (see Acetic anhydride above).
Acetsalicylic, USP, special, bbls., makers, primary discrib., point of shin't, 100-lb. lots..lb. .50 - —
smaller lots.....lb. .51 - .64
standard, fine, crvst., gran. (30-40 mesh), powd. (80 mesh), bbls., same basis..lb. .48 - .59

Freight equalized, shipment identical quantity over standard routes, from N. Y., Phila., Midland, Mich., Chicago and St. Louis.

Aminoacetic, NF, bbls., frt. adjusted, lb. 1.50 - 1.75
Anthranilic, resub., bbls.....lb. 2.00 - 2.30
tech., bbls.....lb. 1.00 - 1.35
Arsenous, tech. (see Arsenic, white).
USP, powd., dms., kgs.....lb. .20 - .22
Ascorbic, USP, dms., 500-kilo lots... kilo. 24.50 - —
25-50 kilo lots.....kilo. 25.00 - —
10-kilo lots.....kilo. 25.25 - —
5-kilo lots.....kilo. 25.70 - —
bots, kilo lots.....kilo. 26.41 - —
500 grams.....kilo. 27.47 - —
Battery, cbys., c.l., E. works. 100 lbs. 1.60 - 1.75
l.c.l., E. works.....100 lbs. 2.05 - 2.75
Benzoic, tech., bbls., 4,000 lbs. or more..lb. .43 - —
1,000 to 3,900 lbs.....lb. .44 - —
900 lbs. or less.....lb. .47 - —
USP, bbls., 4,000 lbs. up.....lb. .54 - —
1,000 to 3,900 lbs.....lb. .55 - —
900 lbs. or less.....lb. .58 - .59
dms., 4,000 lbs. up.....lb. .55 - .56
1,000 to 3,900 lbs.....lb. .56 - .57
900 lbs. or less.....lb. .58 - .59
Betaoxynaphthoic, bbls., works....lb. 1.05 - —
Boric, tech., 99.5%, crvst., powd., paper bgs., c.l., frt. alld..ton 104.00 - —
ton lots, ex whse. N. Y. or Chl..ton 122.50 - —
less ton lots, same basis..ton 127.50 - —
bbls., c.l., frt. alld.....ton 124.00 - —
ton lots, ex whse. N. Y. or Chl..ton 142.50 - —
less car lots, same basis..ton 147.50 - —
gran., bulk.....ton 95.50 - —
paper bgs., c.l., frt. alld..ton 99.00 - —
ton lots, ex whse., N. Y. or Chl..ton 117.50 - —
less ton lots, same basis..ton 122.50 - —
bbls., c.l., frt. alld.....ton 119.00 - —
ton lots, ex whse., N. Y. or Chl..ton 137.50 - —
less ton lots, same basis..ton 142.50 - —
USP $25 per ton higher.
Brosner's, bcts.....lb. 1.22 - —
Butyric, 99%, dms., c.l., works....lb. .32 - —
l.c.l., works.....lb. .33 - —
Cacodylic, bcts.....lb. 13.00 - 16.50
Camphoric, natural, dms.....lb. 8.00 - 8.50
synth. dms. .....lb. 6.00 - 6.50
Capric, tech., ret. dms.....lb. .50 - Nom
Caprylic, 99%, dms.....lb. .50 - Nom
Castor oil, split, dms.....lb. .36½ - .37½
Chlorosulphonic, dms., c.l., works. lb. .03 - —
l.c.l., works .....lb. .03½ - .04½
tanks, works.....lb. .02½ - —
Chromic, 99½-99¾%, dms., c.l.....lb. .21¾ - —
l.c.l. .....lb. .22¼ - .22¾
Cinnamic, refd., bots.....lb. 3.00 - 4.00
Citric, anhyd., gran., fine gran., bbls. .....lb. .25½ - —
dms., c.l. .....lb. .24 - —
10,000 lbs., 1 ship't.....lb. .24½ - —
kgs. .....lb. .25½ - —
Anhydrous citric acid powder, ½c. per lb higher.
USP, cryst., bbls., c.l.....lb. .25 - —
10,000 lbs., 1 ship't.....lb. .25½ - —
smaller lots.....lb. .26 - —
kgs. .....lb. .26½ - —
gran., fine gran., bbls., c.l.....lb. .22 - —
10,000 lbs., 1 ship't.....lb. .22½ - —
smaller lots.....lb. .23 - —
kgs. .....lb. .23½ - —
USP citric acid powder, ½c. per lb. higher.
Cleve's, bbls.....lb. .65 - 1.00
Coconut oil, dist., dms.....lb. .28½ - .29
Corn oil, s.d., dms.....lb. .19¾ - .20¼
Cottonseed, dist., dms.....lb. .19¾ - .20¼
Acid, cresylic, dom., coaltar, high-boil 50% (210°-215°), low boil 50% (204°-206°), and special blends, dms., c.l., works, frt. equald. gal. 1.26 - —
l.c.l., same basis.....gal. 1.29 - —
tanks, same basis.....gal. 1.20 - —
Petroleum, heavy grade (247°-298°), dms., 20, Cal. ref., gal. 490 - —
Sewaren, N. J., ref.....gal. 616 - —
1-19, Cal., ref. .....gal. 510 - —
Sewaren, N. J., ref.....gal. 696 - —
tanks, dlvd. .....gal. 586 - —
medium grade (200°-246°), dms., 20, Cal. ref..gal. 50 - —
Sewaren, N. J., ref....gal. 636 - —
1-19, Cal. ref.....gal. 570 - —
Sewaren, N. J., ref....gal. 696 - —
tanks, dlvd. .....gal. 646 - —
Crotonic, bbls. Canadian, works...lb. .50 - —
Dichlorophenoxyacetic, fib. dms., c.l., works..lb. .80 - —
l.c.l., works.....lb. .85 - .95
Diethylbarbituric (see Barbital)
F (see Acid, monosulphonic).
Formic, 85%, cbys., c.l., works....lb. .12 - —
l.c.l., works.....lb. .12½ - .14½
90%, cbys., c.l., works.....lb. .12½ - —
l.c.l., works.....lb. .13 - .14½
Fumaric, tech., bbls., dms.....lb. .27 - .31
Gallic, NF V, bbls., 1,000-lb. lots..lb. 1.40 - —
smaller lots.....lb. 1.43 - 1.45
technical, bbls., 1,000-lb. lots....lb. 1.23 - —
smaller lots .....lb. 1.26 - 1.28
Gamma, bbls.....lb. 1.07 - —
Gluconic, tech., 50%, bots.....lb. .23 - .31
dms. .....lb. .14 - —
kgs. .....lb. .16 - —
Glycolic (see Acid, hydroxyacetic)
H, bbls., works.....lb. .50 - —
Hydriodic, 45-47%, cbys.....lb. 2.52 - 2.54
57%, cbys.....lb 2.83 - 2.85
Hydrobromic, medicinal, 48%, cbys., dlvd. E..lb. .48 - —
tech., 48%, cbys., dlvd. E.....lb. .45 - —
34%, cbys., dlvd. E. .....lb .35 - .37
Hydrochloric (see Acid, muriatic).
Hydrocyanic, cyls., works.....lb. .80 - 1.00
dilute, NF, 2%, 5-lb. bots .....lb. .30 - .40
Hydrofluoric, anhyd., cyls., works lb. .19 - .19½
tanks, works.....lb. .16 - —
30%, rubber dms., works.....lb. .08 - .09
48%, rubber dms., works.....lb. .12 - —
52%, rubber dms., works. .....lb. .12½ - —
60%, rubber dms., works.....lb. .13½ - —
Hydrofluosilicic, 30-35%, bbls.....lb. .08 - .09
Hydroxyacetic, tech., 70%, bbls., non-return., Phila...lb. .084 - —
tanks, Belle, W Va., 100% basis lb. .085 - —
Hypophosphorous, USP, djns..... lb. .75 - .77
Lactic, edible, 50%, bbls., 20 or more. lb. .14½ - —
smaller lots.....lb. .15 - —
80%, bbls., 5 or less.....lb. .24½ - .24⅝
plastic grade, 50%, bbls., 20 or more. lb. .17¾ - —
10 or less.....lb. .18¼ - —
80%, bbls., 5 or less.....lb. .31¾ - .32½
tech., 22%, bbls., c.l., works. 100 lbs. 4.40 - —
l.c.l., works.....100 lbs. 4.80 - —
cbys., works.....100 lbs. 5.30 - —
44%, bbls., c.l., works.....100 lbs. 8.15 - —
l.c.l., bbls., works.....100 lbs. 8.55 - —
cbys., works.....100 lbs. 9.05 - —
USP XII, 85%, cbys..... lb. .54 - .57
USP VIII, 75%, cbys.....lb. .52 - .59
Laurent's, bbls.....lb. .70 - —
Lauric, dist., 85-90% dms.....lb. .35 - Nom.
60%, dms.....lb. .30 - Nom.
Linseed oil, light, dms.....lb. .41¾ - .42¼
Maleic, powd., dms.....lb. .26 - .30
Anhydride (see M).
Malic, powd., kgs.....lb. .47 - —
Mandelic, NF, dms., 1,000-lb. lots..lb. 2.05 - —
smaller lots.....lb. 2.10 - 2.30
Mixed, tanks, nitric unit.....lb. .05 - .06
sulphuric unit.....lb. .0085 - .009
Molybdic, kgs., works.....lb. .95 - 1.10
Monochloroacetic, purified, flake, 99%, dms..lb. .21 - 22½
tech., flake, 96-97%, dms.....lb. .17 - .18
Monosulphonic, bbls.....lb. 1.50 - —
Muriatic, 18°, cbys., c.l., E. works, 100 lbs. 1.50 - 1.70
l.c.l., E. works.....100 lbs. 1.90 - 2.90
tanks, E. works.....ton. 18.00 - 18.20
20°, cbys., c.l., E. works....100 lbs. 1.85 - 2.00
tanks, E. works.....ton. 20.00 - 21.00
22°, cbys., c.l., E. works....100 lbs. 2.35 - 2.50
tanks, E. works.....ton. 22.00 - 26.00
CP, USP, consumers, cbys. extra. lb. .08 - —
6-lb. bots., extra.....lb. .10 - —
dealers, cbys., extra.....lb. .06½ - —
6-lb. bots., extra.....lb. .08½ - —
Myristic, dist., dms.....lb. .45 Nom.
Naphthenic, 220-230 acidity, dms., extra, works..lb. .13 - —
tanks, works.. .....lb. .10 - —
230-240 acidity, dms., extra, works. lb. .20 - —
tanks, works.....lb. .17 - —
Neville and Winthers, dms.....lb. .73 - —
Nicotinic, USP, dms., works.....kilo. 6.00 - 6.30
Nicotinic amide (see Nicotinamide).
Nitric, 36°, cbys., c.l., E. works... 100 lbs. 5.00 - —
l.c.l., E. works.....100 lbs. 5.30 - 6.30
38°, cbys., c.l., E. works....100 lbs. 5.50 - —
l.c.l., E. works.....100 lbs. 6.00 - 6.25
40°, cbys., c.l., E. works....100 lbs. 6.00 - 6.50
l.c.l., E. works.....100 lbs. 6.50 - 7.10
42°, cbys., c.l., E. works....100 lbs. 6.50 - 7.00
l.c.l., E. works.....100 lbs. 7.00 - 7 25
CP, USP, consumers, cbys., extra. lb. .13 - —
7-lb. bots., cs., extra.....lb. .15 - —
dealers, cbys., extra.....lb. .11½ - —
7-lb. bots., cs., extra.....lb. .13½ - —
Oleic (see Oil, red).
Oleum (see Acid, sulphuric, fuming).
Oxalic, bbls., c.l., works.....lb. .13 - —
10,000 lbs., works.....lb. .13¼ - —
smaller lots, works.....lb. .14 - —
Palm oil, white, dist., dms.....lb. .21¼ - .21¾
Para-aminobenzoic, purified, dms., works..lb. 4.00 - —
technical, bbls., works.....lb. 1.70 - —
Paranitrobenzoic, cns.....lb. .80 - —
Acid, paratoluidinmetasulphonic, bbls., works..lb. .85 - —
Peanut oil, s.d., dms.....lb. .19¾ - .20¼
Phenylacetic, bots. .....lb 1.50 - 1.75
Phosphoric, food grade, 50%, bbls., c.l., works, frt. equald.. 100 lbs. 4.50 - —
l.c.l., same basis.....100 lbs. 5.25 - 6.00
cbys., c.l. works, frt. equald.. 100 lbs. 5.00 - —
l.c.l., works, frt. alld..100 lbs. 6 00 - 7 50
75%, bbls., c.l., works, frt equald..100 lbs. 5.75 - —
cbys., c.l., works, frt. equald 100 lbs. 6.10 - —
l.c.l., works, frt. alld..... 100 lbs. 8.00 - 9.00
tanks, works, frt equald.... 100 lbs. 4.00 - —
USP XII, 85%, 100-lb. cbys., c.l. lb. 10½ - —
l.c.l. .....lb. 11½ - 13
70-lb. cbys. .....lb. 10½ - —
l.c.l. .....lb. 11½ - 13
dilut., 10%, cbys., djns.....lb. .07 - .07½
Picramic, bgs .....lb - .65 - .70
Picric, bbls.....lb. .30 - .31
Propionic, nat., dms., works.....lb. .18 - —
tanks, works.....lb. .17 - —
synth., pure, dms., works.....lb. .22 - —
tanks, works.....lb. .21 - —
Pyrogallic, tech., bbls.....lb No prices
N.F., cryst., dms.....lb. 2.80 - 3.03
resub., dms.....lb. 3.30 - 3.45
Pyroligneous, bbls. incl., l.c.l., ex whse..gal. .41 - —
Ricinoleic (see Acid, castor oil, split).
Salicylic, tech., bbls., c.l.....lb. .31 - —
smaller lots.....lb. .38 - —
USP, bbls., c.l.....lb. .40 - —
smaller lots .....lb. .47 - —
Sebacic, tech., dms., c.l., works.....lb No stocks
Soybean oil, s.d., dms.....lb. .19¾ - .20
Stearic, double pressed, bgs.....lb. .32 - .33
single pressed, bgs.....lb. .31½ - .32½
triple pressed, bgs.....lb. .34¼ - .35¼
Succinic, bbls. .....lb. .87 - .90
Sulphanilic, CP, bots., works.....lb 1.60 - 1.63
tech., dms., works.....lb .17 - —
Sulphuric, 60°, cbys., c.l., E. works. 100 lbs. 1.35 - 1.40
l.c.l., E. works.....100 lbs. 1.70 - 2.00
tanks, E. works.....ton. 13.00 - 13.50
66°, cbys., c.l., E. works....100 lbs. 1.55 - 1.70
l.c.l., E. works.....100 lbs. 2.05 - 2.75
tanks, E. works.....ton. 16.50 - 17.50
98%, tanks, E. works.....ton. 17 50 - 18.50
CP, N F., consumers cbys., extra lb. .08 - —
9-lb. bots., cs., extra..... lb. .10 - —
dealers, cbys., extra.....lb. .06¾ - —
9-lb. bots., cs., extra.....lb. .08½ - —
fuming, 20% tanks, E. works..ton. 19.50 - 20.50
Tallow, dist., dms.....lb. .23¾ - .24¾
Tannic, tech., 60-62%, dms.....lb. .68 - .69
70%, H.P., dms.....lb. .80 - .90
72-74%, dms. .....lb. .80 - .90
USP, fluffy, bbls., 1,000-lbs. lots..lb. 1.45 - —
smaller lots .....lb. 1.47 - 1.55
powder, bbls., 1,000-lb. lots....lb. 1.35 - —
smaller lots .....lb. 1.36 - 1.56
Tartaric, USP, bbls., 10,000 lbs., 1 ship't..lb. .49½ - —
smaller lots .....lb. .50 - —
dms. .....lb. .52 - .53
kgs. .....lb. .50½ - —
Thioglycolic, refined, bbls., cbys., basis 100%..lb. 1.95 - 2.00
tech., bbls., cbys., basis 100%.....lb. 1.40 - —
Tobias, bbls. .....lb. .60 - .62
Trichloroacetic, bots. .....lb. 2.00 - 2.50
Tungstic, CP, 100-lb. pkgs.....lb. 3.10 Nom.
pure, 100-lb. kgs.....lb. 2.80 Nom.
Aconite leaves, bls.....lb. .60 - .65
Root, bls .....lb. 1.10 - 1.15
Aconitine, amorph., mild, bots.....oz. 32.50 - —
cryst., potent, bots.....oz. 85.00 - —
Acrylonitrile, dms., c.l., works....lb. .29½ - —
l.c.l., works.....lb. .30½ - .42½
tanks, works.....lb. .28½ - —
Adepa lanae (see Lanolin).
Adonis vernalis herb, bls.....lb. .65 - .70
Agar .....lb. 3.85 Nom.
Agaric, white, bls.....lb. 2.75 - 3.00
Agrimony herb, bls.....lb. .40 - .45
Albumen (egg), edible flake, bbls. lb. 2.40 - 2.45
powd., bbls. .....lb. 2.45 - 2.50
tech., cryst., bbls. .....lb. 1.15 - 1.25
Albumin, blood, dark (see Blood, dried, soluble).
light, dms., l.c.l.....lb. .70 - .75
Egg (see Albumen).
Alcohol, allyl, dms., c.l., dlvd.....lb. .26½ - —
l.c.l., dlvd. .....lb. .27 - —
tanks, dlvd. .....lb. .25 - —
Amyl, ex pentane, dms., c.l., frt. alld. E. of Miss.....lb. .161 - —
l.c.l., frt. alld. E. of Miss..lb. .171 - —
tanks, frt. alld. E. of Miss. lb. .151 - —
(see also Fusel oil, ref.).
Benzyl, cns. .....lb. .72 - .80
dms. .....lb. .68 - —
Butyl, normal, ferment., Ill., Ind. prod., dms., c.l., frt. alld....lb. .30½ - —
l.c.l., frt. alld. E.....lb. .31½ - —
tanks, frt. alld. E.....lb. .29 - —
tankwagon, frt. alld. E....lb. .29½ - —
other production, dms., c.l., frt. alld E..lb. .30½ - —
l.c.l., frt. alld. E.....lb. .31½ - —
tanks, frt. alld. E.....lb. .29 - —
synthetic, dms., c.l., frt. alld. E...lb. .18½ - —
l.c.l., frt. alld. E.....lb. .19 - —
tanks, frt. alld. E.....lb. .17 - —
Normal butyl alcohol prices in West, ½c. per lb. higher.
secondary, dms., c.l., dlvd.....lb. .11 - —
l.c.l., dlvd. .....lb. .11½ - —
tanks, dlvd. .....lb. .09½ - —
tertiary, dms., c.l.....lb. .12½ - —
l.c.l., dms. .....lb. .13 - —
tanks .....lb. .11 - —
Capryl, dms., c.l., works.....lb. .26 - —
l.c.l., works. .....lb. .27 - —
tanks, works.....lb. .24½ - —

Acacia—Aluminum Chloride Solution

Alcohol, cetyl, dom., CP., fiber cins., 1,000 lbs..lb. 2.25 - —
smaller lots.....lb. 2.30 - 2.55
Cinnamic, bots .....lb. 3.00 - —
Denatured, CD12, CD13, dms., c.l., E. works..gal. .94 - —
l.c.l., E works.....gal .98 - 1.03
tanks, dlvd E.....gal. .87 - —
Tankcar sales require written authorization by Alcohol Tax Unit.
SD1, 190 pf., dms., c.l., E. works, gal .94 - —
l.c.l., E works.....gal. .98 - 1.03
tanks, E works .....gal. .87 - —
SD2B, dms., c.l., E. works.....gal. .94 - —
l.c.l., E works.....gal. .98½ - 1.03½
tanks, E works.....gal. .87½ - —
SD23H, dms., c.l., E. works....gal .92½ - —
l.c.l., E works.....gal .96½ - 1.01½
tanks, E works.....gal. .85½ - —
SD29, denatured with acetaldehyde, dms., c.l., E. works..gal .95 - —
l.c.l., E works.....gal .99 - 1.04
tanks, E works.....gal. .88 - —
When any of the several SD29 denaturants is supplied by the purchaser, the prices are the same as those of SD21 plus 1½c per gal. denaturing charge.
Special solvent, dms., c.l., E. works. gal .94½ - —
l.c.l., E works.....gal .98½ - 1.03½
tanks, E works.....gal. .87½ - —
Tankcar sales require written authorization by Alcohol Tax Unit.
Diacetone, acetone free, dms., c.l., dlvd..lb. .13 - .13½
l.c.l., dlvd. .....lb. .13½ - .14
tanks, dlvd. .....lb. .11½ - .12
tech., dms., c.l., dlvd.....lb. .13 - .14½
l.c.l., dlvd. .....lb. .14 - .15½
tanks, dlvd. .....lb. .11½ - .13
Ethyl, 190 pf., dms., c.l., E works gal. 18.04 - —
l.c.l., E. works.....gal. 18.08 - 18.13
tanks, E. works.....gal. 17.97 - —
absolute, dms., c.l., E. works..gal. 19.01 - —
l.c.l., E. works.....gal. 19.05 - 19.10
tanks, E works.....gal. 18.94 - —
Ethylhexyl, dms., c.l., works.....lb. .29½ - —
l.c.l., works .....lb. .30½ - —
tanks, works .....lb. .28½ - —
Furfuryl, tech., cns. works.....lb. .35 - —
dms., c.l., works.....lb. .22½ - —
l.c.l., works .....lb. .25 - —
tanks, works.....lb. .19 - —
Isoamyl (see Carbinol, Isobutyl).
Isobutyl, refd., dms., works.....lb. .13 - —
tanks, works.....lb. .12 - —
Isopropyl, refd., 91% dms., incl., c.l., dlvd..gal. .44 - .46½
l.c.l., dlvd. .....gal. .47 - .49½
tanks, dlvd. .....gal. .37 - —
99%, dms. incl., c.l., dlvd....gal. .47½ - .50
l.c.l., dlvd.....gal. .50½ - .53
tanks, dlvd.....gal. .40½ - —
Methyl (see Methanol).
Methylamyl (see Carbinol, methylisobutyl).
Octyl, perfumer's grade, bots....lb. 4.00 - 4.40
Phenylethyl, dms .....lb. 2.30 - 3.50
Polyvinyl, type A, fiber-pack, Niagara Falls..lb. .65 - .70
type B, fiber-pack, same basis..lb. .60 - .65
Propyl, normal, dms., c.l., works.lb. .82 - —
l.c.l., works.....lb. .12½ - —
tanks, works.....gal. .10 - —
Tetrahydrofurfuryl, cns. Cedar Rapids, Ia..lb. .47 - —
dms., c.l., Waverly, N. Y.....lb. .40 - —
l.c.l., same basis.....lb. .44 - —
tanks, Niagara Falls, N. Y.....lb. .36 - —
Aldol, 95%, dms., works.....lb. .15 - .16
denaturing grade, dms.....gal. 1.33 - 1.48
Aletris root, bgs.....lb. 1.85 - 1.90
Algin, bbls., fib. dms.....lb. .76 - 1.00
Alizarin (see Red, alizarin).
Alkanet root bgs.....lb. .75 - .80
Allspice, Jamaica (see Pimento).
Mexican, bgs.....lb. .14½ - .15¼
Allyl bromide, cbys., 5,000 lbs., works lb. .99 - —
smaller lots, works.....lb. 1.05 - 1.10
Chloride, dms., c.l., dlvd.....lb. .14 - —
l.c.l., dlvd.....lb. .14½ - —
tanks, dlvd.....lb. .12½ - —
Aloe, Cape, cs.....lb. .35 - .37
Curacao, kgs.....lb. .37 - —
Socotrine, kgs.....lb. .46 - .47
Alpin, bbls. dms., kgs.....lb. 4.20 - 4.50
Alphacellulose, bgs., c.l., works....lb. .04 - .15
Alphanaphthol, bbls.....lb. .64 - —
Alphanaphthylamine, bbls.....lb. .35 - .35¼
Alphanaphthylthiourea, fib. dms., works, frt. alld..lb. 4.00 - 4.60
Alphanitronaphthalene, bbls.....lb. .31 - —
Alphapicoline, ret. dms, works, frt. equald..lb. .24 - .27½
Alphapinene, tanks, S. works....gal. .59 - —
Alphaterpineol, dms., c.l., works....lb. .1240- —
l.c.l., works.....lb. .1330- —
tanks, works.....lb. .1290- —
Alphatocopherol, ampuls.....kilo. 750.00 - —
Althea root, NF, peeled, bls.....lb. .40 - .45
Alum, ammonia, burnt, USP, bbls., kgs. lb. .16 - .18
gran., bbls., works.....100 lbs. 4.00 - —
lump bbls., works.....100 lbs. 4.25 - —
powd., bbls. works.....100 lbs. 4.40 - —
Potash, gran., bbls., works...100 lbs. 4.25 - —
lump, bbls., works.....100 lbs. 4.50 - —
powd., bbls., works.....100 lbs. 4.65 - —
Potash-chrome, bbls.....lb. .12¼ - .13
Soda, bbls., c.l., works.....100 lbs. 3.25 - —
l.c.l., dlvd.....100 lbs. 4.25 - 5.00
Alumina, classified grade, grd., kgs. works..lb. .35 - .37
top grade, grd., kgs. works.....lb. .60 - .67
unclassified, grd., kgs., works..lb. .10½ - .40
Aluminum acetate, basic solution, 24%, bbls., l.c.l., works..lb. .11 - —
20%, bbls., l.c.l., works.....lb. .10 - —
Chloride, anhyd., com'l, dms., c.l., works..lb. .10 - .11
l.c.l., works.....lb. .10¼ - —
cryst., com'l, dms., c.l., works..lb. .06 - —
l.c.l., works.....lb. .06½ - .06¾
solution, 32°, cbys., c.l., works...lb. .02¾ - —
l.c.l., works.....lb. .03¼ - —

Aluminum Fluoride—Atropine Sulphate

Aluminum fluoride, tech., bbls. lb. .25 - —
Formate, solution, 19° Be., bbls., c.l., lb. .09½- —
l.c.l., works lb. .10 - —
Hydrate, heavy, bgs., c.l., works ton. 56.00 - —
l.c.l., works ton. 76.00 - —
night, bgs., dlvd. lb. .17 - —
Hydroxide gel, tech., min. 15% Al (OH_3), dms., 10,000 lbs. or more, f.o.b. ship't point lb. .03 - .03½
ton lots, same basis lb. .03¼- .05½
smaller lots, same basis lb. .03¾- .04
8-9½% Al_2O_3, fib. dms., works lb. 17¾- —
contract, works lb. 16¾- —
14-15% Al_2O_3, fib. dms., works lb. 20¾- —
contract, works lb. 19¾- —
dried, USP XII, fib. dms., works lb. .78 - —
contract, works lb. .75 - —
powder, tech. (see Alumina hydrate), USP IX, bbls., dms. lb. .15 - .17
Laurate, precip., bbls. lb. .42 - —
Linoleate, solid, bbls. lb. .51¾- —
Metal, 98-99%, ingots, 10,000 lbs. lb. .15 - —
pigs, 10,000 lbs. lb. .14 - —
Naphthenate, 1.7% Al, dms., wks. lb. .19 - —
Oleate, dms., contract lb. .43½- —
Paste, lining, extra fine, 200-lb. dms. lb. .56 - .60
ink, 150-lb. dms. lb. .71 - —
standard, 200-lb. dms. lb. .38 - —
Powder, lining, extra fine, 150-lb. dms. lb. .93 - —
litho, 150-lb. dms. lb. .62 - —
standard, 200-lb. dms. lb. .62 - —
rubber comp., 200-lb. dms. lb. .47 - —
Aluminum powder, unpolished, stand., dms. lb. .43 - —
varnish, stand., 300-lb. dms. lb. .47 - —

Aluminum powder and paste prices are f.o.b. shipping point. Add 1c. per lb. for 100-lb. drs., 1½c. per lb. for 50-lb. drs., 3c. per lb. for 10-lb. can, and 5c. to 12c. per lb. for smaller containers. Deduct 1c. per lb. for single shipment of 400 to 1,499 lbs., 2c. for 1,500 to 4,999 lbs., 3c. for 5,000 to 29,999 lbs., and 4c. for 30,000 lbs. or more. Where destination is within the continental U. S., a deduction equivalent to the lowest available common carrier, transportation rate will be made from sellers' invoice on orders of 200 lbs. or over.

Resinate, precip., dms. lb. .20½- —
Stearate, dibasic, ctns., c.l. lb. .43 - —
l.c.l. lb. .44 - —
monobasic, ctns., c.l. lb. .43 - —
l.c.l. lb. .44 - —
tribasic, ctns., c.l. lb. .48 - —
less ton quantities lb. .49 - .50
Sulphate, com'l, bgs., c.l., works, frt. equald. 100 lbs. 1.15 - 1.30
c.l., same basis 100 lbs. 1.40 - 1.50
bbls., c.l., same basis 100 lbs. 1.55 - 1.60
l.c.l., same basis 100 lbs. 1.95 - 2.00
iron-free, bgs., c.l., works 100 lbs. 1.95 - 2.25
l.c.l. works 100 lbs. 2.35 - 2.50
Trihydrate, heavy (see Alumina hydrate).
Ambergris, gray, tins oz. 8.50 -12.00
Aminoazotoluene, bbls. lb. .85 - —
Aminoethylpropanol, cns., dms., works, lb. .50 - .60
Aminoethylethanolamine, tanks, works, lb. .50 - —
Aminopyrine, bots., dms. lb. 4.50 - 4.75
Ammonia, anhydrous, fertilizer, tanks, works, frt. equald. ton. 59.00 - —
pure, cyls., extra lb. .16 - —
refrigeration, tanks, works ton. 61.50 - —
Aqua, dms., c.l., works lb. .03 - .03¼
l.c.l., works lb. .03½- —
tanks, works (NH_3 content) ton. 65.00 - —
Ammoniac gum (see Gum, ammoniac).
Sal, gray, bbls., c.l., works 100 lbs. 7.00 - —
l.c.l., works 100 lbs. 7.40 - —
white, gran., bbls., c.l., works, 100 lbs. 4.75 - —
l.c.l., works 100 lbs. 5.00 - —
Ammonium acetate, purified, bbls. lb. .32 - —
reagent, bbls. lb. .34 - —
Benzoate, USP, dms., kgs., 4,000 lbs. frt. alld. lb. .43 - —
smaller lots, frt. alld. lb. .44 - .47
Biborate, bbls., c.l., works ton. 332.00 - —
ton lots, works ton. 388.50 - —
less ton lots, works ton. 343.50 - —
Bicarbonate, dms., works, c.l. lb. .064 - .0675
Bichromate, bbls., works lb. .26 - .30
Bifluoride, bbls. lb. .15 - .15½
Bromide, gran., NF, bbls lb. .31 - —
dms. lb. .32 - —
powdered ammonia bromide 10c. per lb. higher.
Carbonate, USP, lump, dms. lb. .08¼- .09½
powdered, 1c. per lb. higher.
Chloride, tech. (see Ammoniac, sal).
USP, bbls., dms., kgs. lb. .13 - .15
Citrate, dibasic, bbls. lb. .75 - —
dms. lb. .80 - .85
Fluoride (see Bifluoride).
Hydroxide (see Ammonia acqua).
Hypophosphite, NF, dms. lb. 1.25 - 1.27
Iodide, NF, jars lb. 3.00 - 3.95
Ammonium linoleate, 80%, plastic, dms., works lb. .40½- —
kgs., works lb. .42½- —
25%, dms., frt. alld. zone 1 lb. .21½- —
tech., bbls., works lb. .37 - —
dms., works lb. .39 - —
Molybdate, CP, cryst., kgs lb. 1.26 - 1.30
fine cryst., bbls., kgs. lb. .84 - .87
purified, dms. lb. 1.10 - 1.13
Nitrate, fertilizer grade, Canadian, 33.5% N, bgs., c.l., shipping point. ton. 70.25 - —
dom., bgs., western works ton. 48.50 - —
Nitrate-dolomite, 20.5% N, bgs., Hopewell, Va. ton. 37.50 - —
Oleate, dms. lb. .14 - —
Oxalate, fine gran., bbls. lb. .23 - —
dms. lb. .25 - .29
Pentaborate, gran., bbls., c.l., works. ton. 230.00 - —
ton lots, works ton. 248.50 - —
less ton lots, works ton. 253.50 - —
Ammonia pentaborate powder, $10 per ton higher.
Perchlorate, kgs. lb. .25 - —
Persulphate, kgs. lb. .25½- .28¼
Phosphate, dibasic, NF V, bbls., kgs. lb. .37 - .39
tech., bgs., c.l., works lb. .07 - —
l.c.l., works lb. .07¾- —
Salicylate, NF, dms., kgs. lb. 1.25 - —
Silicofluoride, bbls. lb. .15 - .16
Stearate, anhydrous, dms. lb. .34 - —
paste, dms. lb. .06½- —
Sulphamate, bbls., dms., works lb. .18 - .20
Sulphate, bulk, producing ovens ton. 35.00 -38.00
Sulphide, liquid, 40-45% basis, 100% dms., c.l., works lb. .10 - —
l.c.l., works lb. .10½- —
tanks dlvd. or frt. alld. lb. .08½- —
red, 48% cbys., works lb. .08 - —
dms., works lb. .06 - —
yellow, 33% cbys., works lb. .08 - —
dms., works lb. .06 - —
Sulphocyanide, pure, bbls. lb. .60 - .68
tech., bbls. lb. .17 - .19
Thiocyanate (see Ammonia sulphocyanide).
Thioglycolate, highly purified, 100% basis, bbls. lb. 7.10 - 8.25
Amyl acetate, ex fusel oil, tech., dms., c.l., dlvd. lb. .25½- —
l.c.l., dlvd. lb. .26½- —
tanks, dlvd. lb. .24 - —
ex pentane, dms., c.l., frt., alld. E. of Miss. R. lb. .22 - —
l.c.l., same basis lb. .23 - —
tanks, same basis lb. .21 - —
Alcohol (see Alcohol, amyl).
Butyrate, dms. lb. .90 - 1.00
Chloride, mixed, tech., dms., c.l., works lb. .07 - —
l.c.l., works lb. .08 - —
tanks, works lb. .06 - —
Ether (see Ether, amyl).
Nitrite, USP, bots. lb. 1.75 - 1.83
Mercaptan, dms., works lb. 1.10 - —
Salicylate, ctns. lb. .77 - .87
Stearate, dms., works lb. .42 - .45¼
Anethol, com'l, dms., works lb. .657 - .685
NF, dms. lb. .90 - 1.40
Angelica root, dom., (atropurpurea) bls. lb. 1.10 - 1.15
imported, bls. lb. 1.50 - 1.60
Angostura bark, bls. lb. .55 - .60
Anilin oil, dms., c.l., works, frt. alld. lb. .14 - —
l.c.l., works, frt. alld. lb. .15 - —
tanks works, frt. alld. lb. .13 - —
Salt, dms., works lb. .22 - .24
Anise, Argentine, bgs. lb. .29 - .30
Chinese, Star lb. .14 - .14¼
Cyprus, bgs. lb. .27½- .28
Mexican, bgs. lb. .25½- .26
Syrian, bgs. lb. .26 Nom.
Anisic aldehyde, bots., ens. lb. 2.53 - 3.35
dms. lb. 2.42 - 2.75
Annatto paste, bxs. lb. .34 - .37
Seed, bgs. lb. .19 - .20
Anthracene, 80-85%, bbls., works lb. .60 - .86
90%, bbls., works lb. .81 - 1.00
Anthraquinone, 99.5%, bbls. lb. .70 - —
Antimony butter (see Antimony chloride)
Chloride, solut., cbys. lb. .17 - —
Metal, bulk, c.l., mines lb. .33 - .35¼
Needle, cs. lb. No stocks
Oxide, ceramic grade, bgs., c.l., works lb. .26 - .27½
l.c.l., works lb. .28 - .28½
paint grade, bgs., c.l., works lb. .27½- .31
l.c.l., works lb. .28½- .32¾
Salt, 65%, bgs., c.l., dlvd. E. of Miss. lb. No stocks
Sulphide, 65-70%, bbls., c.l., works. lb. .22 - —
l.c.l., works lb. .24 - —
Antipyrine, bbls. lb. 2.15 - 2.25
Apomorphine, bots. oz. 23.20 -25.70
Archil extract, bbls. lb. No stocks
Areca nuts, powd., bbls. lb. .22 - .23
Arecoline hydrobromide, bots. oz. 6.10 - 7.10
Antimony-potassium tartrate (see Tartar emetic).
Argols, min. 70%, bgs., shipment ports, 100 kilos (100% purity) 28.50 - —
Arnica flowers, bls. lb. 1.15 - 1.25
Arrowroot, powd., bgs., bbls. lb. .14 - .15
Arsenic chloride (arsenous), bots. lb. 1.55 - —
Metal, lump, bbls., c.l. lb. No stocks
Sulphide, yellow, bbls. lb. No stocks
Trioxide (see Acid, arsenous).
White, powd., bbls., c.l. lb. .06 - —
l.c.l. lb. .07 - .08
Asafetida, cs. lb. .55 - .60
powd., bbls., dms. lb. .72 - .77
Asbestine (see Talc, N. Y. fibrous).
Asbestos fiber, 5D and 5K, bgs., c.l. (20 tons), Can. mines ton. 65.00 - —
5R, bgs., c.l. (20 tons), same basis. ton. 58.00 - —
6D, bgs., c.l. (30 tons), same basis. ton. 43.00 - —
7D, bgs., c.l. (30 tons), same basis. ton. 38.50 - —
7F, bgs., c.l. (30 tons), same basis. ton. 36.50 - —
7K, bgs., c.l. (30 tons), same basis. ton. 26.00 - —
7M, bgs., c.l. (30 tons), same basis. ton. 22.50 - —
7R, bgs., c.l. (30 tons), same basis. ton. 21.50 - —
7RF, bgs., c.l., same basis ton. 26.50 - —
7T, bgs., c.l., same basis ton. 20.50 - —
7TF, bgs., c.l., same basis ton. 26.50 - —
Asphaltum California, dms., c.l. ton. 36.40 - —
l.c.l. ton. 41.40 - —
Cuban, A, bulk, c.l. ton. 60.00 - —
l.c.l. ton. 90.00 - —
B, bulk, c.l. ton. 38.50 - —
l.c.l. ton. 55.00 - —
Gilsonite, brilliant black, selects 270°-295° F fus. pt., bgs., f.o.b. Colo. mines ton. 36.50 - —
Seconds, 300°-390° F fusing point, not uniform, bgs., mines ton. 29.00 - —
Jet, bgs., ton lots, gross weight, Colo. mines ton. 29.00 - —
Manjak, No. 10, crude, dms., works. lb. .06½- —
process form, bgs., works lb. .05¾- .12
Mexican, refd., dms., f.o.b. Tampico, metric ton. 27.50 - —
South American, refd., dms., c.l., N. J. refy ton. 22.00 -25.00
l.c.l., same basis ton. 24.00 -25.00
tanks, same basis ton. 15.00 - —
Atropine, bots. oz. 10.80 -12.60
Sulphate, bots. oz. 8.90 - 9.85

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B

Balm of Gilead buds, bgs. lb. 2.25 - 2.50
Barbasco root (see Cube root).
Barberry root bark, bgs. lb. .78 - .80
Barbital, dms. lb. 4.50 - —
Sodium, dms. lb. 4.75 - —
Barium carbonate, precip., bgs., 10 tons and up, works. ton. 67.50 -75.00
small lots, works. ton. 74.50 -82.00
Chlorate, kgs., works. lb. .25½- .31
Chloride, CP, cryst., bbls. lb. .25 - .27
pure, bbls., kgs. lb. .10 - .12
tech., bgs., c.l., works. ton. 85.00 - —
l.c.l., works ton. 95.00 - —
Dioxide, dms., c.l., works. lb. .11½- —
l.c.l., works lb. .13 - —
Fluoride, bbls. lb. .14 - —
Hydrate, crystals, bgs. lb. .09 - .09½
Hydroxide, bbls., works. lb. .19 - —
Iodide, bots. lb. 5.12 - —
Monoxide (see Oxide).
Nitrate, bbls., c.l., works. lb. .11½- —
l.c.l., works lb. .13 - —
Oxide, grd., dms., works. lb. .11 - .11½
l.c.l., works lb. .12½- .13½
Peroxide (see Dioxide).
Silicofluoride, bbls. lb. .17 - .19
Stearate, ctns., 1 ton up. lb. .47 - .48
smaller lots lb. .48 - .49
Barium sulphate, tech. (see Barytes and Blanc fixe).
X-ray, bbls. lb. .10 - .10¼
kgs. lb. .12¼- —
Sulphide, dms., works. ton. 45.00 -64.00
Baryte ore, approx. 94% $BaSO_4$, bulk, mines. ton. 8.50 -12.50
Barytes, water-grd., paper bgs., c.l., St. Louis. ton. 30.30 - —
l.c.l., same basis. ton. 32.10 - —
ex whse., N. Y. ton. 45.00 - —
Southern off-color, bgs., mines. ton. 19.00 - —
95.75%, bgs., mines. ton. 20.00 - —
Bay leaves (see Laurel leaves).
Barberry bark, bgs. lb. .12 - .13
Belladonna leaf, bls. lb. 1.45 - —
Root, bls. lb. 1.25 Nom.
Bauxite, bulk, mines. ton. 8.50 -10.00
Bentonite, 200 mesh, bgs., works. ton. 11.00 - —
Benzaldehyde, NF, dms. lb. .65 - .80
tech., cbys., dms. lb. .45 - .55
Benzene (see Benzol).
Hexachloride, tech., 11-13% gamma bgs., dms., c.l., works. lb. .42 - .44
l.c.l., works. lb. .43 - .48
dust, dry, 50%, dms., c.l., works. lb. .33 - —
l.c.l., works. lb. .34 - .35
wet, 50%, dms., c.l., works. lb. .34 - —
l.c.l., works lb. .35 - .36
Benzidin base, bbls. lb. .77 - —
Benzocaine, cns. lb. 3.50 - 3.85
Benzol (benzene), pure, nitration and 90%, dms. ret., works. gal. .24 - .26
tanks, E. of Omaha, frt. alld. up to 2c. gal. .19 - .21
W. Coast, Minnequa, Colo., same basis. gal. .19 - —
Benzophenone, dms. lb. 1.15 - 1.60
Benzoyl chloride, cbys. lb. .20 - .28
Peroxide, pure, fib. ctns., works. lb. .90 - 1.05
Benzyl acetate, f.f.c., dms. lb. .60 - 1.00
dms. lb. .60 - .70
Alcohol (see Alcohol, benzyl).
Benzoate, f.f.c., cns., dms. lb. 1.00 - 1.40
Chloride, refined, cbys. lb. .22 - —
tech., cbys., works, frt. equald. lb. .20½- —
Cinnamate, cns. lb. 3.85 - 4.00
Formate, cns. lb. 1.95 - 3.50
Propionate, bots. lb. 1.85 - 2.30
Salicylate, bots. lb. 1.80 - 2.25
Benzylidinacetone, bots. lb. 1.85 - 2.70
Benzylisoeugenol, bots. lb. 9.50 - —
Berberine bisulphate, cns. lb. No stocks
Hydrochloride, bots. lb. No stocks
Sulphate, cns. lb. No stocks
Berberis root, bls. lb. .30 - .35
Betagammapicolin, dms., c.l., works. lb. .14½- —
l.c.l., works lb. .25 - —
Betanaphthol, resublimed, dms., works. lb. .72 - .75
tech., bbls., c.l., works. lb. .23 - .26
l.c.l., works lb. .26 - .29
Benzoate, fib. dms., works. lb. 1.75 - —
Salicylate, dms. lb. 5.00 - —
Betanaphthylamine, tech., bbls., works. lb. .62 - —
Betapicolin, 90%, ret. dms., c.l., works. lb. 1.60 - —
l.c.l., works lb. 1.85 - —
95%, dms., works. lb. 2.05 - —
98-99%, dms., works. lb. 2.20 - —
Beth root, bls. lb. .55 - .60
Bismuth chloride, jars. lb. 4.50 - —
Citrate, USP VIII, jars. lb. 3.12 - —
Hydroxide, dms. lb. 4.00 - —
Metal, bxs., ton lots. lb. 2.00 - —
Nitrate, cryst., cns. lb. 1.60 - —
Oxychloride, cns., dms. lb. 3.80 - —
Oxide, anhydrous, dms. lb. 4.20 - —
Subcarbonate, USP, dms. lb. 2.60 - 2.63
Subgallate, NF, fib. dms. lb. 2.45 - 2.48
Subiodide, fib. dms. lb. 4.13 - —
Subnitrate, USP, dms. lb. 2.15 - 2.18
Subsalicylate, USP, dms. lb. 3.05 - —
Sulphocarbolate, fib. dms. lb. 4.05 - —
Bismuth-ammonium citrate, USP, powd., dms. lb. 3.70 - —
Black, acetylene, bgs., c.l., works. lb. .12½- —
cs., l.c.l., ship. pt. lb. .16 - .18
Bone, 1A, bgs., bbls., c.l., frt. alld. dest. lb. .21 - —
1, bgs., bbls., c.l., same basis. lb. .19 - —
2, bgs., bbls., c.l., same basis. lb. .17½- —
3, bgs., bbls., c.l., same basis. lb. .16½- —
4, bgs., bbls., c.l., same basis. lb. .15½- —
5, bgs., bbls., c.l., same basis. lb. .13 - —
6, bgs., bbls., c.l., same basis. lb. .13 - —
7, bgs., bbls., c.l., same basis. lb. .16 - —
8, bgs., bbls., c.l., same basis. lb. .17 - —
457, bgs., bbls., c.l., same basis. lb. .16 - —
Bone black, l.c.l. prices are ½c. higher than c.l. Pacific coast, ex dock, or whse., prices are 1½c. higher.
Carbon, channel, beads, bulk, c.l. works. lb. .06 - —
bgs., c.l., works. lb. .0632- —
l.c.l., works. lb. .07 - —
dlvd. or whse. lb. .1025- —
uncompressed, regular, bgs., c.l., works. lb. .074 - .075
bgs., ctns., l.c.l., dlvd. or whse lb. .11½- —
furnace, HMF, bgs., c.l., works. lb. .05 - —
ctns., l.c.l., whse. lb. .09 - —
SRF, bgs., c.l., works. lb. .035 - —
ctns., l.c.l., whse. lb. .075 - —
Charcoal (see C).
Graphite (see G).
Iron oxide, synthetic, bgs., c.l., works. lb. .09¾- —
l.c.l., works. lb. .10 - —
Lamp, A-8, bgs., c.l., works. lb. .14 - —
l.c.l., works. lb. .15 - —
AA, bgs., c.l., works. lb. .25 - —
l.c.l., works. lb. .26 - —
B-5, bgs., c.l., works. lb. .09 - —
l.c.l., works lb. .10 - —
BTA, No. 2, bgs., c.l., works. lb. .12 - —
l.c.l., works. lb. .13 - —
S-100, bgs., c.l., works. lb. .12 - —
l.c.l., works. lb. .13 - —
No. 1, bgs., c.l., works. lb. .12 - —
l.c.l., works lb. .13 - —
No. 3, bgs., c.l., works. lb. .15 - —
l.c.l., works. lb. .16½- —
No. 4, bgs., c.l., works. lb. .18 - —
l.c.l., works. lb. .22 - —
No. 5, bgs., c.l., works. lb. .30 - —
l.c.l., works lb. .40 - —
No. 10, bgs., c.l., works. lb. .07 - —
l.c.l., works lb. .08 - —
Mineral, bgs., l.c.l. ton. 26.00 -31.00
Black ash (see Barium sulphide).
Black dyes (see Dyes).
Black haw root bark, bls. lb. .75 - .76
Tree bark, bls. lb. .35 - .43
Black Indian hemp root, bls. lb. .55 - .60
Blanc fixe, dry, by-product, bgs., c.l., works. ton. 72.50 - —
l.c.l., works ton. 80.00 - —
direct process, bgs., c.l., works. ton. 85.00 - —
l.c.l., works ton. 90.00 - —
N. Y. whse. ton. 108.00 -120.00
bbls., c.l., works. ton. 90.00 - —
l.c.l., works ton. 95.00 - —
N. Y. whse. ton. 113.00 - —
pulp, 66⅔%, bbls., c.l., works. ton. 55.00 - —
l.c.l., same basis. ton. 60.00 - —
Bleaching powder, dms., c.l., works. 100 lbs. 3.00 Nom.
l.c.l., works. 100 lbs. 3.50 - 4.00
bbls., c.l., works. 100 lbs. 3.50 - —
l.c.l., works. 100 lbs. 4.00 - —
Blood, dried, 16-16½% ammo., bgs. unit-ton. 10.50 - —
high-grade, unground, 16-17% ammon., bulk, Chicago. unit-ton. 11.50 - —
soluble, bgs., l.c.l. lb. .17 - .25
Bloodroot, bls. lb. .60 - .65
Blue, alkali, dry, bbls., dlvd. N. of Tenn. and N. C., E. of Miss. River, including St. Paul, Minneapolis, Davenport, Rock Island, St. Louis. lb. 1.90 - —
Toner, bbls., litho flushed, same basis. lb. 1.10 - —
Celestial, bbls., same basis. lb. .15 - .16
Chinese, bbls., same basis. lb. .42 - —
Cobalt, genuine, bbls., same basis. lb. 4.90 - —
imitation (see Blue, ultramarine).
Copper-phthalocyanin, full strength, bbls., same basis. lb. 3.75 - 3.85
80%, bbls., same basis. lb. 3.00 - 3.40
Iron (see Blue, Chinese, Milori, Potash Prussian, and Soda).
Methyl violet toner, bbls., same basis. lb. 4.20 - —
Milori, bbls., same basis. lb. .42 - —
Peacock, fugitive, 100% color strength, same basis. lb. .60 - .79
Permanent toner, green shade, molybdic, bbls., same basis. lb. 3.75 - —
Tungstic lb. 4.00 - —
Potash, CP, bbls., same basis. lb. .48 - —
Prussian bbls., same basis. lb. .42 - —
soluble, bbls., same basis. lb. .42 - —
Soda, CP, bronze, bbls., same basis. lb. .30 - —
Ultramarine, cobalt type, dry or pulp, bbls., same basis. lb. .24 - .28
jobbing type, dry, bbls., same basis. lb. .13 - .14
regular types, dry or pulp, bbls., same basis. lb. .18 - .28
Victoria, toner, molybdic, bbls. lb. 3.75 - —
Tungstic, bbls. lb. 3.75 - —
Ink toner, bbls., same basis. lb. 2.05 - 2.12
Violet toner, molybdic, bbls., same basis. lb. 1.24 - —
Tungstic, kgs., same basis. lb. 2.60 - 2.70
Blue dry colors, dlvd. prices ½c. higher Ala., Fla., Ga., La. (Shreveport, 1¼c., Miss., N. C., S. C., Tenn., Tex. (El Paso, 2c.), Cedar Rapids, Des Moines, Kansas City, Lincoln, Omaha, St. Joseph, 1.6c. higher, Pac. Coast, Denver, Pueblo, Salt Lake City, Wichita, frt. equalized with Chicago.
Blue dyes are listed under Dyes.
Blueflag, root, bls. lb. No stocks
Bluestone (see Copper sulphate).
Blue vitriol (see Copper sulphate).
Boldo leaves, bls. lb. .11 - .12
Bone, raw, bulk, Chicago. ton. 75.00 - —
junk, bulk, same basis. ton. 50.00 -52.00
Meal, raw, 4½% ammon., 50% phos., bgs., E. works. ton. 65.00 - —
Chicago, works. ton. 60.00 - —

BECCO HYDROGEN PEROXIDE 90%

PROPERTIES

Assay: 90% H_2O_2 by weight
Active Oxygen: 42.4% by weight
Specific Gravity: 1.39 at 18°C.
Residue: Less than 0.005%
Heat of Decomposition: 1100 B. t. u. per lb.
Form: Clear, colorless liquid
Stability: No loss of active oxygen on storage at ordinary temperatures. Stable at elevated temperatures.
Solubility: Miscible with water in all proportions. Soluble in many organic media.

SUGGESTED USES

Organic Synthesis: Oxidation, hydroxylation. Formation of peracids.
Polymerizations: Promoter in bulk and suspension systems. Curing agent.
Bleaching: Fats, oils, waxes and similar materials.
Energy Source: Explosives, propellants. 1 liter produces over 400 liters of oxygen gas.

This residue free oxidant is especially useful in non-aqueous systems. It reacts faster and more efficiently than dilute hydrogen peroxide.

AVAILABILITY

Becco Hydrogen Peroxide 90% is now available in commercial quantities. It is shipped in aluminum containers—215 lbs. net.

OTHER BECCO PRODUCTS

Hydrogen Peroxide 27.5%	(100 Volume) H_2O_2
Hydrogen Peroxide 30% C. P.	H_2O_2
Hydrogen Peroxide 50%	H_2O_2
Potassium Persulfate	$K_2S_2O_8$
Ammonium Persulfate	$(NH_4)_2S_2O_8$
Sodium Carbonate Peroxide	$2\ Na_2CO_3.3\ H_2O_2$
Sodium Pyrophosphate Peroxide	$Na_4P_2O_7.2\ H_2O_2$
Urea Peroxide	$CO(NH_2)_2.\ H_2O_2$
Calcium Peroxide 60%	CaO_2
Magnesium Peroxide 15%-25%-50%	MgO_2
Zinc Peroxide 55%	ZnO_2
Acetyl Peroxide in Dimethyl Phthalate	$(CH_3CO)_2O_2$

Detailed description and laboratory samples of any Becco Active Oxygen Chemical will be sent on request.

BUFFALO ELECTRO-CHEMICAL COMPANY, Inc.
Becco Sales Corporation, Sales Agents
STATION "B", BUFFALO 7, NEW YORK

Bone meal, steamed, feeding grade, 1% ammon., 60% phos., bgs., E. works..ton.65.00 - —
Chicago, works.....ton.65.00 - —
fertilizer grade, 3% ammon., 50% phos., bgs., E. works..ton.60.00 - —
Chicago, works.....ton.60.00 - —
Phosphate, defluorinated (see D), precipitated (see Calcium Phosphate tribasic precip).
Boneset leaves, bls.....lb. .17 - .18
Borage flowers, bls.....lb. .55 - .56
Borax, tech., 99½%, cryst., paper bgs., c.l., works, frt. alld..ton.73.50 -76.00
ton lots, ex whse., N. Y. or Chi..ton.91.00 - —
less ton lots, same basis..ton.96.00 - —
bbls., c.l., works, frt. alld..ton.93.50 - —
ton lots, ex whse., N. Y. or Chi..ton.111.00 - —
less ton lots, same basis..ton.116.00 - —
fine gran., bulk, works.....ton.44.50 -47.50
paper bgs., c.l., works, frt. alld ton.48.50 - —
ton lots, ex whse., N. Y. or Chi..ton.66.00 - —
less ton lots, same basis..ton.71.00 - —
bbls., c.l., works, frt. alld..ton.68.50 - —
ton lots, ex whse., N. Y. or Chi..ton.86.00 - —
less ton lots, same basis, ton.91.00 - —
powdered, paper bgs., c.l., works, frt. alld..ton.53.50 - —
ton lots, ex whse., N. Y. or Chi..ton.71.00 - —
less ton lots, same basis..ton.76.00 - —
bbls., c.l., works, frt. alld..ton.73.50 - —
ton lots, ex whse., N. Y. or Chi..ton.91.00 - —
less ton lots, same basis..ton.96.00 - —
Borax packed in kgs. is $40 per ton higher than borax packed in paper bags. USP, $15 per ton higher.
Bordeaux mixture, bgs., c.l., whse., works, frt. alld..lb. .15 - .21
l.c.l., same basis.....lb. .16 - .23
Bornyl thiocyanoacetate (see Isobornyl thiocyanoacetate).
Brimstone (see Sulphur).
Bromine, purified, cs., c.l., frt. alld. E. of Rockies..lb. .21 - —
1,000 lbs., same basis.....lb. .23 - —
single pkgs., same basis.....lb. .28 - —
Brazilwood extract (see Hypernic).
Bromoform, USP, bots.....lb. 1.50 - 1.70
cbys.....lb. 1.42 - —
Bromstyrol, bots.....lb. 4.85 - 6.25
Bronze powder, aluminum (see A).
Gold, litho., cans, dms., works..lb. .50 - .60
moulding, cans, dms., works..lb. .80 - 1.00
printing ink, cans, dms., works.lb. .95 - 1.10
radiator, cans, dms., works...lb. .60 - .65
Broomtop, bls.....lb. .20 - .30
Brown, iron synth., bgs., l.c.l., works, lb. .12 - .13½
Oxide metallic, bgs., c.l., works.lb. .02¾- .03
Sap, crystals, works.....lb. .12 - —
powdered.....lb. .13 - —
Sienna, burnt, American, works, paper bgs., l.c.l. lb. .03¾- .10½
Italian type, bgs., works.....lb. .10½- .14
raw, American, bgs., l.c.l., works.. lb. .05¾- .10½
Italian type, bbls., works.....lb. .11½- .12½
Umber, burnt, American, c.l., bbls., works..lb. .05 - —
l.c.l., bgs., works.....lb. .05½- —
Turkey type, bgs., c.l., Boston, Bethlehem, Easton, Pa., Hiwassee, Va., N. Y...lb. .05½ —
l.c.l., works.....lb. .05½- —
raw, American, bgs., same basis..lb. .05½- .05½
Turkey type, bgs., same basis..lb. .07½- .07¾
Vandyke, bbls., works.....lb. .10 - .11
Benzine, cns., 100 ozs.....oz. .40 .50
Sulphate, cns., 100 ozs.....oz. .40 - .45
Bryonia root, bls.....lb .45 - .50
Buchu leaves, bls.....lb. 1.00 - 1.05
Buckthorn bark, bls.....lb. .34 - .35
cut and sifted, bbls.....lb. .45 - .46
Berries, bgs.....lb. 1.00 - 1.10
Butane, Indust., tanks, group 3..gal. .04 - —
Burdock root, bls.....lb. .42 - —
Butyl acetate, normal, ferment, Ill., Ind., prod., dms., c.l., works, frt. alld. E. of Miss..lb. .30½- —
l.c.l., same basis.....lb. .31½- —
tanks, same basis.....lb. .29 - —
tankwagons, same basis...lb. .29½- —
other production, dms., c.l., same basis..lb. .30½- —
l.c.l., same basis.....lb. .31½- —
tanks, same basis.....lb. .29 - —
synthetic, dms., c.l., same basis, lb. .18½- —
l.c.l., same basis.....lb. .19 - —
tanks, same basis.....lb. .17 - —
Normal butyl acetate, W. of Miss., ½c. per lb higher.
secondary, dms., c.l., dlvd. E. of Miss..lb. .12½0- —
l.c.l., same basis.....lb. .13½0- —
tanks, same basis.....lb. .11½0- —
Alcohol (see Alcohol, butyl).
Aldehyde, dms., c.l., works.....lb. .20½- —
l.c.l., works.....lb. .21½- —
tanks, works.....lb. .19½- —
Ether (see Ether, butyl).
Lactate, dms., c.l., frt. alld. E. of Rockies..lb. .40½- —
c.l., same basis.....lb. .41½- —
tanks, same basis.....lb .39 - —
Laurate, dms., works.....lb. .42 - —
Methacrylate, M-4, dms., works..lb. .60 - —
cns., works.....lb. .63 - .67
P-4, cns., works.....lb. .65 - —
Myristate, dms., works.....lb. No prices
Oleate, ref., dms., l.c.l., works....lb. .35 - —
tech., dms., c.l., works.....lb. .24 - —
l.c.l., works.....lb. .24½- .25½
Phenylacetate, dms.....lb. 2.00 - 2.25
Phthalate (see Dibutyl phthalate).
Propionate, dms., dlvd.....lb. No stocks
tanks, dlvd.....lb. No stocks
Stearate, dms., l.c.l., frt. alld. E. of Rockies..lb. .45 - —
Butyl-isobutyl methacrylate, P-5, 50/50, cns., works..lb. .60 - —
Butyric ether (see Ethyl butyrate).

C

Cadmium bromide, jars.....lb. 1.66 - 1.91
Iodide, cns.....lb. 4.49 - 4.64
Lithopone (see Yellow).
Metal, ingots or sticks, cs., dlvd..lb. 1.75 - 1.80
patent shapes, cs., dlvd.....lb. 1.75 - 1.80
Selenide (see Red).
Sulphide (see Yellow).
Caffeine, cryst., dms., 100 lbs. or more, lb. 4.25 - 7.00
anhydrous, dms., 100 lbs. or more.. lb. 4.50 - —
Citrated, dms., 100 lbs. or more....lb. 2.75 - —
Hydrobromide, bots.....lb. 6.00 - —
Calabar beans, bgs., futures.....lb. .65 - .66
Calamus root, dom., bls.....lb. .35 - .40
bleached, imported, bls.....lb. .70 - .80
Calciferol, cryst., vials, 10,000 or more standard units (1 standard unit=1,000,000 USP units), works..gram. 4.00 - —
1,000 to 10,000 s.u., works..gram. 4.40 - —
less than 1,000 s.u., works..gram. 4.80 - —
Calciferol, in edible oil, dms., 10,000 or more, 1,000 to 10,000 s.u., works..unit. .11 - —
s.u., works..unit. .10 - —
less than 1,000 s.u., works..unit. .12 - —
Calcium acetate, bgs., dlvd.....100 lbs. 3.00 - 4.00
Arsenate, dealers, dms., c.l., whse., works, frt. alld..lb. 09½- —
l.c.l., same basis.....lb. 10½- 11½
Bromide, N. F., jars.....lb. .70 - —
Carbide, dms., c.l., works.....ton.50.00 - —
delivered.....ton 87.00 90.00
Carbonate (see Chalk and Whiting).
Chloride, cryst., purified, bbls., jars, lb 28 - 30
flake, 77-80%, paper bgs., c.l., dlvd ton.21.50 -28.00
l.c.l., dlvd.....ton.31.50 -48.00
liquor, works, basis 40%.....ton 8.50 - —
solid, 72-75%, dms., c.l., dlvd..ton.21.00 -37.50
l.c.l., dlvd.....ton.31.00 -34.15
Calcium chloride prices vary according to zone, minimum prices are for spot delivery c.l. prices for flake in burlap bgs., $2.50 per ton higher; dms., $3.50 per ton higher.
Cyanide dms., delivered E. of Rockies..lb. .25 - .40
Gluconate, AA, bbls.....lb. .65 - .72
cns.....lb. .83 - .90
USP, bbls.....lb. .58 - .65
cns.....lb. .76 - .83
Hydride, dms., works.....lb. .90 - —
Glycerophosphate, NF, 5lb dms.....lb. 1.90 - —
Hypochlorite, 100 lb. dms., dlvd. E. of Rockies..dm.24.00 -28.50
cans, cased (45 lbs.) same basis, cs 19.75 -21.50
Iodide, jars.....lb. 4.12 - —
Lactate, USP, dms.....lb. .40 - .50
Laurate, bbls.....lb. .43 - .44
Calcium mandelate, USP, dms., works, lb. 2.05 - 2.30
Naphthenate, 5% Ca, dms.....lb. .27 - —
Pantothenate, dex., jars.....kilo.75.50 - —
Phosphate, feeding grade, bgs., works, ton.75.50 - —
food grade, bbls., 10 or over, works, lb. .07 - .07¾
less than 10, works.....lb. .08 - .10
medicinal, dibasic, bgs.....100 lbs.11.40 -19.00
monobasic, cryst., bgs., c.l., works frt. equald..lb. 6.50 - —
l.c.l., same basis.....lb. 6.75 - —
tribasic, bbls., c.l., works.....lb. 6.50 - 6.80
bgs., l.c.l., works.....lb. 6.85 - 7.30
Phytate bgs., works.....lb. .16 - .17
Resinate, precip., 5.8% Ca, dms lb .20 - —
Silicate, hydrated, bgs., c.l., works 05½- —
l.c.l., works.....lb. .06 - —
Stearate, precip., cns., c.l., works, lb. .44 - —
l.c.l., works.....lb. .45 - .46
Sulphate (see Gypsum)
Sulphide, 70%, bgs., c.l., works ton 46.00 - —
70% bgs., c.l. works.....ton.50.00 - —
luminous tins, works.....lb. 1.25 - —
Sulphocarbolate, bbls., dms.....lb. .49 - .54
Calcium-strontium sulphide, phosphorescent, dms., works.....lb. 1.00 - 1.50
fine particle size, works.....lb. 1.50 - 1.75
Calendula flowers, bls.....lb. 1.00 - 1.05
Calomel USP, cryst., dms.....lb. 2.10 - 2.11
fine powd., dms.....lb. 2.25 - 2.26
Camphor, monobromated, dms.....lb 2.50 - —
Camphor, natural.....lb. No stocks.
synth., tech., bbls., 2,000 lbs. or more, works..lb. .45 - —
10 bbls (1,500 lbs.).....lb. 47½- —
smaller lots.....lb. 48 - .58
Camphor, synthetic, USP, gran., powd., bbls., 2,000-lb. lots..lb. .72 - —
1,000-lb. lots.....lb. .73 - —
smaller lots.....lb. .74 - —
tablets, tins, 2,000-lb. lots..lb. .86 - —
1,000-lb. lots.....lb. .87 - —
smaller lots.....lb. .88 - —
Canada balsam (see Fir balsam).
Cantharides, Chinese, cs.....lb. 2.25 - 2.50
powd., bxs.....lb. 2.50 - 2.75
Russian, bgs.....lb. 7.00 - 7.25
powd., bxs.....lb. 7.25 - 7.50
Capsicum (see Pepper, red).
Oleoresin, NF VIII, cns.....lb. 6.50 - 6.75
Caramel coloring, tins.....gal. 1.25 - —
Caraway seed, Dutch, bgs.....lb. .18 Nom.
Dutch, bgs.....lb. .18½- .19
fancy, new crop, bgs.....lb. .18 - .18½
Carbazole, 90%, dms., ton lots, works, lb. 1.10 - 1.30
smaller lots, works.....lb. 1.20 - —
Carbinol, butyl, norm., dms., l.c.l., works..lb. .42 - —
secondary, dms., c.l., works..lb. .70 - —
Isobutyl, dms., c.l., works.....lb. .51 - —
c.l., works.....lb. .52 - —
tanks, works.....lb. .50 - —
Methylisobutyl, dms., c.l., frt. alld. E..lb. .14½- —
c.l., same basis.....lb. .15 - —
tanks, same basis.....lb. .12 - —
Carbon bisulphide, 50 gal. dms., c.l., works, frt. alld. to competitive points..lb. .05½- —
l.c.l., same basis.....lb. .06½- —
5-gal. dms., c.l., same basis..lb. .07½- —
l.c.l., same basis.....lb. .08½- —
Dioxide, cyls.....lb. .06 - .08

ASPIRIN USP

RESORCIN USP Recrystallized

SODIUM BICHROMATE

SODIUM SULPHATE Anhydrous

GLUCOSE 45° Bé

SODIUM SULPHIDE

FORMIC ACID 90%

BLEACHING POWDER 70%

NICKEL ANODES

ANILINE OIL

TRICHLORETHYLENE

LITHOPONE 30%

DIRECT BLACK

PHOSPHORIC ACID 85%

SULPHUR BLACK

MAGNESIUM OXIDE Heavy

GLYCERINE CP, USP

OTHER SPECIAL PRODUCTS

Distributors for
THE RUFERT CHEMICAL COMPANY
NICKEL FORMATE
also NICKEL CATALYST
NICKEL CARBONATE
NICKEL OXIDE, etc.

GOLWYNNE
CHEMICALS CORPORATION
420 LEXINGTON AVENUE
NEW YORK 17, N. Y. Phone: LE 2-9740

Carbon Tetrachloride, CP—Cocillana Bark

Carbon tetrachloride, CP, dms., c.l..lb. .11 - —
l.c.l. .....lb. 11½- —
tech., dms., zone 1, c.l., frt. alld..lb. .07 - —
l.c.l. .....lb. .07½- —
zone 2, c.l., frt. alld.....lb. .07½- —
l.c.l. .....lb. .08½- —
zone 3, c.l., frt. alld.....lb. .08 - —
l.c.l., frt. alld.....lb. .09½- —
zone 4, c.l.....lb. .07½- —
l.c.l. .....lb. .08 - —
USP, chys.....lb. .17 - .19

Carbon tetrachloride prices in zone 4 are f.o.b. cars L.A., Cal.; S. F., Cal.; Portland, Ore., and Seattle, Wash. Sales zones are:—1, Conn., Del., Ill., Ind., Ia., Me., Mass., Md., Mich., Minn., Mo., N. H., N. J., N. Y., N. C., O., Pa., R. I., Tenn., Va., W. Va., Wis., and river cities of Burlington, Ia., and Kansas City, Kans.; 2, Ala., Ark., Fla., Ga., Kans., La., Miss., Neb., N. D., Okla., S. C., S. D.; 3, Colo., N. Mex., Tex., and Montana points E. of Billings; 4, Ariz., Cal., Idaho, Nev., Ore., Utah, Wash. and Montana points W. of Billings.

Cardamom fruit, bleached, bold, cs..lb. 1.55 - 1.60
medium, cs.....lb. 1.35 - 1.40
decorticated, Guatemalan, cs....lb. 1.15 - 1.20
Indian, cs. .....lb. 1.15 - 1.20
green, Alleppey, bgs.....lb. 1.05 - 1.10
Seed (see Cardamom fruit, decorticated).
Carotene, cryst., research grade tins, works, gram. 5.00 - —
in vegetable oil (alpha, 10%, beta, 90%), amps., 100 grams, dlvd gram. 2.85 - —
50 grams, dlvd..... gram. 2.90 - —
tech., tins, works.....lb. 67½- —
diluted, dry powd., 8,330 A units per gm., bots., works..lb. .70 - —
vegetable oil, 250,000 A units per gm., bots., works..lb. 37.80 - —
50,000 A units, per gm., bots., works..lb. 7.87 - —
8,330 A units, per gm., bots., works..lb. .85 - —
Carvol, bots.....lb. 13.00 -16.00
Cascara sagrada bark, bulk.....lb. .40 - .43
Case-hardening mixture, 30% gran., dms., l.c.l..lb. 09¾- —
slabs, dms., l.c.l.....lb. .08¾- —
Casein, dom., acid-precip., bgs., 10,000 lbs. or more, ship. point..lb. .32 - .34
rennet-precip., 10,000 lbs. or more, same basis..lb. .34 Nom.
Imp., acid-precip., ground, bgs., 100 bgs. or mbre..lb. .32½- .35½
rennet-precip., unground, 100 bgs., or more..lb. .36 Nom.
smaller lots.....lb. .37 Nom.
Cassia bark, Batavia, No. 1, short-stick, bls..lb. .60 Nom.
broken, bls.....lb. .18 - .18½
thinquill, bls. .....lb. .60 Nom.
China, rolls, select, cs.....lb. .12 - .12½
broken, bls. .....lb. .08½- .09
Kwangsi, broken, bls.....lb. .16½- .17
Saigon, broken, bls.....lb. .28 - .29
medium, bls. .....lb. .35 - .36
thin, bls.....lb. .39 - .40
Yunnan, bls. .....lb. .14½- .15
Buds, China, bgs.....lb. .23 - .24
Cassia fistula, bskts.....lb. .26 - .28
Castor beans, bgs., Brazilian ports, long ton.210.00 -215.00
Oil (see Oil, castor).
Pomace, bgs., c.l., works.....ton. 40.00 - —
Castoreum, nat., cns.....lb.39.00 - —
Catechol, CP, cryst., works, fib. dms.lb. 2.00 - —
resublimed, works, dms.....lb. 3.25 - —
Catnep, bls.....lb. .70 - —
Celery seed, French, bgs.....lb. .30 - .31
Indian, bgs. .....lb. .22 - 22¼
futures, bgs. .....lb. .22 - .22½
Celluloid scrap (see Pyroxylin scrap).
Cellulose acetate, flake, ctns., works, frt. alld. on 100 lbs. or more..lb. .36 - —
granules, ctns., same basis.....lb. .42 - —
molding, plain colors, pearls, special black, dms., frt. alld., c.l..lb. .47 - —
dms., l.c.l., same basis.....lb. .49 - .54
regular black, dms., l.c.l., same basis..lb. .35 - .39
variegations, dms., l.c.l., same basis..lb. .54 - .59
Acetate-butyrate, flake, low butyryl content, 15.5-17%, ctns., 5,000 lbs. frt. alld..lb. .49 - —
1,000 lbs., frt. alld.....lb. .50 - —
100 lbs., frt. alld.....lb. .51 - —
smaller lots, works.....lb. .52 - —
medium butyryl content, 36.5%, ctns., 5,000 lbs. frt. alld..lb. .51 - —
1,000 lbs., frt. alld.....lb. .52 - —
100 lbs., frt. alld.....lb. .53 - —
smaller lots, works.....lb. .54 - —
molding, plain colors, pearls, special black, dms., frt. alld., l.c.l..lb. .56 - .61
regular black, dms., l.c.l....lb. .47 - .51
variegation, dms., l.c.l.....lb. .61 - .66
Celluloid acetate-butyrate, moulding, powd., high butyryl content, 47-50%, ctns., 5,000 lbs., frt. alld. lb. .57 - —
1,000 lbs., frt. alld.....lb. .58 - —
100 lbs., frt. alld.....lb. .59 - —
smaller lots, works.....lb. .60 - —
Triacetate, flake, ctns., works, frt. alld. on 100 lbs. or more..lb. .40 - —
Cerium hydrate, dms., works.....lb. 1.00 - —
Oxalate, NF, bbls., kgs., works..lb. .70 - .72
Oxide, optical grade, bgs., under 100 lbs., works..lb. 2.25 - —
kgs., 100-lb. lots, works.....lb. 1.75 - —
Chalk, precip., cosmetic, dentifrice, drugs, bgs., c.l., works..lb. .02¾- .03½
l.c.l., ex whse.....lb. .04 - —
paint, bgs., c.l., works.....ton.40.00 - —
papermakers, bgs., c.l., works..ton.32.50 -40.00
rubbermakers, bgs., c.l., works..ton.30.00 - —
Chamomile, Hungarian type, cs....lb. .65 - .70
Roman, bls., futures.....lb. 1.45 - 1.80
Charcoal, hardwood, briquets, bulk, c.l., works..ton.49.50 - —
bgs., c.l., works.....ton.54.50 -55.50
granular, bgs., incl., c.l., works, ton.50.50 - —
lump, bulk, c.l., works.....ton.39.50 -43.50
bgs., extra, returnable, c.l., works..ton.42.50 -45.50
screenings, bgs., works.....ton.33.50 - —
Pinewood, gran., powd., bgs., c.l., works, South..ton.40.00 - —
l.c.l., works.....ton.50.00 -60.00
lump, bgs., c.l., works, South..ton.33.00 - —
Willow, powd., bbls.....lb. .06 - .07
Chestnut extract, powd., 65% tannin, bgs., extra, c.l., works..lb .1040- —
l.c.l., works.....lb .1115- —
solid, 25% tannin, bbls., c.l., works, lb. .0435- —
l.c.l., works.....lb. .0460- —
tanks, works.....lb. .0375- —
China clay, dom., dry-grd., air-float, 99.75% 300 mesh, bgs., c.l., works..ton.10.00 -13.00
l.c.l., works.....ton.14.00 -16.00
bulk, c.l., works.....ton. 9.00 - —
99% 200 mesh, bgs., c.l., works..ton.10.00 -12.00
l.c.l., works.....ton.11.00 -16.00
wet-grd., silk-bolt, 99½% 325 mesh, bulk, c.l., works....ton.11.50 - —
paper bgs., c.l., works..ton.15.00 - —
imported, white, lump, bulk, c.l., ex dock Balto., Boston, Norfolk, Phila..ton.51.25 - —
powd., bgs., l.c.l., ex whse..ton.60.00 -100.00
Chloral, dms., works.....lb. .45 - .50
Hydrate, jars.....lb. .93 - .98
Synthetic rubber, same basis, all quantities..lb. .52 - —
Chlordane, agricultural, dms., c.l., frt. alld..lb. 1.50 - —
l.c.l., frt. alld.....lb. 1.55 - 1.70
refined, dms., c.l., frt. alld.....lb. 1.60 - —
l.c.l., frt. alld.....lb. 1.80 - 1.90
technical, cns., c.l., works.....lb. 1.55 - —
l.c.l., works.....lb. 1.80 - 1.90
Chlorinated rubber, standard, ctns., 100 lbs. up, works..lb. .40 - —
smaller lots, works.....lb. .43 - —
Chlorine, liquid, cyls., c.l., works..lb. .07 - .12
l.c.l., stock points.....lb. .09 - .15½
tanks, single units, works, frt. equald..100 lbs. 2.25 - —
multiple units, 3 cars, works, frt. equald..100 lbs. 2.55 - —
2 cars, same basis....100 lbs. 3.15 - —
1 car, same basis.....100 lbs. 3.75 - —
Chloroform, tech., dms.....lb .20 - .23
USP, dms. .....lb. .30 - .33
Chloroorthotoluidine (Red KB base), bbls...lb. 1.38 - —
Chloropicrin, com'l, bots., ex whse..lb. 1.25 - —
cyls., 180-lbs., works, frt. alld..lb. .80 - —
100-lbs., same basis.....lb. .82 - —
25-lbs., ex whse.....lb. 1.00 - —
Choline chloride, fib dms., works..lb. 3.00 - 3.10
feed grade, fib. dms., works..lb. 2.00 - —
Dihydrogen citrate, fib. dms., works, lb. 3.00 - 3.10
Chrome acetate, powd., 72% Cr., bbls., works..lb. No stocks.
solut., 7½%, bbls., cs.....lb. .08¼- —
8½%, bbls., cs. .....lb. .09¾- —
Cake, bulk, c.l., works.....ton.16.00 - —
Fluoride, bbls., works.....lb. .24 - .27
Green (see Green, chrome).
Oxide (see Green, chrome oxide).
Trioxide (see Acid, chromic).
Yellow (see Yellow, chrome).
Chrysarobin, bots. .....lb. 6.02 - 8.00
Cinchona bark, USP, red, quill, 30-in., cs..lb. 1.26 Nom.
Cinchonidine, small cryst., cns., 100 ozs..oz. 1.02½- —
Cinchonine, large cryst., cns., 100 ozs. oz. .70½- —
small cryst., cns., 100 ozs.....oz. .75½- —
Sulphate, NF, cns., 100 ozs.....oz. .56½- —
Cinchophen, NF, heavy, dms., works, lb. 4.20 - 4.30
standard, dms., works.....lb. 4.00 - 4.10
Cinnamic alcohol (see Alcohol, cinnamic).
Aldehyde, chys., cns., dms.....lb. .82 - 1.25
Cinnamon, Ceylon, No. 2, bls.....lb. .42 - .44
Citral, bots., cns.....lb. 5.15 - 7.70
Citronellal, bots., dms.....lb. 2.75 - —
Citronellol, bots., dms.....lb. 3.85 - 4.75
Cloves, Madagascar, bls.....lb. .12 - .12½
futures, bls. .....lb. .11½- .12
Zanzibar, bls.....lb. .16½- .16¾
Clover tops, red, dcm., bgs.....lb. .65 - .70
imported, bgs. .....lb. No stocks.
Coaltar, coal-gas, crude, dms., c.l., works..dm. 9.50 - —
l.c.l., works .....dm.10.00 - —
tanks, works .....gal. .09 - —
refd., bbls., c.l., works.....bbl.10.00 - —
l.c.l., works .....bbl.10.50 - —
tanks, works .....gal. .10 - —
water-gas, crude, dms., c.l., works, gal. .21 - —
l.c.l., works .....gal. .22 - —
tanks, works .....gal. .11 - —
refd., dms., c.l., works.....gal. .22 - —
l.c.l., works .....gal. .23 - —
Cobalt acetate, bbls., kgs., dlvd..lb. .83¾- —
Carbonate, powd., bgs., works....lb. 1.58 - —
feed, grade, 49½% Co, kgs.....lb. 1.58 - —
Chloride, kgs., works.....lb. .87½- —
feed grade, 24.5% Co, kgs.....lb. 1.25 - —
Hydrate, bbls. .....lb. 2.04 - —
feed grade, 62% Co, kgs.....lb. 2.04 - —
Linoleate, paste, 6% Co, dms....lb. .58¼- —
solid 8½% Co. dms.....lb. .66¾- —
solid 8% Co, dms.....lb. .62½- —
Naphthenate, solid, 6% Co, dms..lb. .35½- —
Nitrate, feed grade, 20.4% Co, bbls. lb. .75¾- —
Oleate, bbls. .....lb. .44 Nom.
Oxide, black, kgs.....lb. 1.27½- 1.30
Phosphate, feed grade, 34% Co, kgs. lb. 1.20¼- —
Resinate, precip., 7.5% Co, dms...lb. .38½- —
Soyate 8.5% solid Co, dms.....lb. .56½- —
Sulphate, dms. .....lb. .65 - —
feed grade, 21% Co, kgs.....lb. 1.00 - —
Cobalt salts, feed grade quotations are f.o.b. Phila., Cleve. or N. Y.
Cobalt-ammonium sulphate, 14% Co, kgs..lb. .75 - —
Cocaine hydrochloride, cns., 100-oz. lots..oz. 9.75 - —
Cochineal, gray, bgs.....lb. .67 - .68
silver, Teneriffe, bgs.....lb. .69 - .70
Cocoa butter, bgs.....lb. .75 Nom.
Cocillana bark, bgs.....lb. .46 - .46

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Choline Dihydrogen Citrate
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ACETONE
ACETANILID
ACID SODIUM PYROPHOSPHATE
BARIUM HYDRATE
BARIUM SULFATE
BARIUM PEROXIDE
BENZOATE OF SODA
BICARBONATE OF SODA
BENZENE HEXACHLORIDE
BENZOYL PEROXIDE
BLANC FIXE
CARBON TETRACHLORIDE
CARBON BISULPHIDE
CAUSTIC POTASH
CAUSTIC SODA
CITRIC ACID
CALCIUM CITRATE
CREAM OF TARTAR
DDT
EPSOM SALT
LECITHIN
LITHIUM SALTS
PERCHLORETHYLENE
PHOSPHORIC ACID
PHOSPHOROUS (RED AMORPHOUS)
ROCHELLE SALT
SAPONIN
SODIUM SULPHIDE
SODA ASH
SODIUM TRIPOLY PHOSPHATE
SODIUM TETRA PYROPHOSPHATE
TARTARIC ACID
TARTAR EMETIC
TRICHLORETHYLENE
VANILLIN

Codeine—Dimethyl Sulphate

Codeine, cns., 100 ozs.....oz. 11.70 - —
Hydrochloride, cns., 100 ozs.....oz. 10.50 - —
Phosphate, cns., 100 ozs.....oz. 9.00 - —
Sulphate, cns., 100 ozs.....oz. 9.50 - —
Codliver oil (see Oil, codliver).
Cohosh black, root, bls.....lb. .22 - .25
Blue, bls.....lb. .22 - .23
Colchicum seed, bgs.....lb. 4.00 - 4.25
Colchinine, bots., cns.....oz. No stocks
Collodion, USP, dms.....lb. .24 - .29
Flexible, USP, dms.....lb. .25½- .30½
Colocynth pulp, bls.....lb. .50 - .52
Colombo root, bls.....lb. .16 - .17
Coltsfoot leaves, bgs.....lb. .43 - .44
Condurango bark, bgs., tutures....lb. .25 - .26
Copaiba balsam, cns.....lb. .68 - .75
Copper acetate, cupric, bbls., works..
lb. .28 - —
smaller containers, works....lb. .29 - .30
Carbonate, 52-54%, bbls.....lb. .24 - .26
Chloride, anhyd., bbls.....lb. 26½- —
crystals, bbls.....lb. .17¾- —
Cyanide, tech., bbls.....lb. 40½- —
Hydrate, dms., del. E. Miss.....lb. 26½- .26¾
Metal, electrolytic.....lb. .21½- —
Naphthenate, liquid, 8% Cu, dms., dlvd.....lb. .21 - —
solid, 11% Cu, dms., dlvd.....lb. .27½- —
Nitrate, tech., cryst., bbls., works, lb. .25 - .28
Oleate, cu 10% solid precip, bbls..lb. 36¾- —
Oxide, black, bbls., works.....lb. .28 - .30
Red, com'l, bbls., works.....lb. .30 - .33
Oxychloride-sulphate, bgs.....lb. .24 - —
Resinate, precip., 8.5% Cu, dms..lb.* .21½- —
Stearate, bgs., works.....lb. 35½- —
Sulphate, cryst., 99%, bgs., c.l., works..100 lbs. 7.60 - —
l.c.l.....100 lbs. 7.85 - 8.60

Copper sulphate, monohydrated, 35%, dms., c.l., dlvd..100 lbs. 12.55 -12.80
l.c.l., dlvd.....100 lbs. 13.55 - —
tribasic, dealers, bgs., works, c.l., lb. .21½- .22½
l.c.l., works.....lb. .23 - .23½
Copperas, cryst., gran., bgs., c.l., works..ton. 17.00 - —
l.c.l., works.....100 lbs. 1.55 - 2.00
bbls., c.l., works.....ton. 20.00 - —
bulk, c.l., works.....ton. 14.00 - —
Copra, c.i.f., Pacific ports.....ton. 204.00 - —
Atlantic or Gulf ports.....ton. 210.00 - —
Coriander seed, Argentine, bgs, futures lb. .08½- .09
Indian, bgs.....lb. No stocks
Moroccan, bgs., futures.....lb. .09½- .10
Peruvian, bgs., afloat.....lb. .09½- .10
Corn sugar, tanners, chipped, paper bgs. c.l., 60,000 lbs. min..100 lbs. 6.36 - —
bbls., c.l., same basis..100 lbs. 6.40 - —
Syrup, 42°, bbls., c.l.....100 lbs. 6.82 - —
l.c.l.....100 lbs. 6.97 - —
Cornsilk, bls.....lb. .30 - .32
Corrosive sublimate, USP, cryst., dms., 50 lbs. or more..lb. 1.93 - —
gran., powd., dms., 50 lbs. or more..lb. 1.78 - —
Cottonroot bark, bls.....lb. .40 - .45
Cottonseed hull ash, 32-36% potash, bgs., dlvd..unit-ton. No prices
Meal, 41% protein sacked, c.l. mills, S.E..ton. 92.00 -95.00
Coumarin, cns., 25 lbs.....lb. 2.75 - 3.25
smaller lots.....lb. 2.90 - 3.30
Cramp bark, NF, bls.....lb. .80 - 85

Cream of tartar, dom., USP, gran. or powd., bbls., 5,000 lbs. one ship't..lb. 41½- —
bbls., kgs., smaller lots.....lb. .42 - .42½
Creosote, beechwood, bots., cbys....lb. 1.05 - 1.10
Coaltar (see Cresol).
Hardwood, N. F., bots., cbys....lb. .80 - .85
Pinewood, dms.....gal. .31 - .32
Carbonate, bots., cbys.....lb. 2.30 - 2.40
Oil, coaltar, crude, tanks, works..gal. .17½- .19½
refined, dms., c.l., works....gal. .30 - .36½
l.c.l., same basis.....gal. .33 - .37
tanks, same basis.....gal. .22 - .25
solution, 80% tanks, works..gal. .16 - .18
Cresol, tech, dms., c.l., works, frt. equald..lb. .14¾- .15½
l.c.l., same basis.....lb. .15¼- .15¾
tanks, same basis.....lb. .14 - .14½
USP, dms., c.l., same basis.....lb. .14½- .15¼
l.c.l., same basis.....lb. .15½- .15¾
tanks, same basis.....lb. .14 - .14½
Crotonaldehyde, 91-93%, dms., 55 and 110 gals., l.c.l., works..lb. .16½- .17
5 and 10-gals., l.c.l., works....lb. .22 - —
Cryolite, nat., dealers, bgs., bbls., c.l., works..100 lbs. 12.75 - —
bbls., l.c.l., works.....100 lbs. 14.00 - —
Cube root, 5% rotenone, bbls., works.lb. .55 - —
4% rotenone, bbls., works.....lb. .45 - —
Cubeb berries, XX, bgs.....lb. .75 - .80
powd., cs.....lb. 1.00 - 1.05
Culvers root bls.....lb. .45 - .50
Cumin seed, Cyprian, bgs.....lb. No stocks
Indian, bgs., futures.....lb. .40 - .41
Moroccan, bgs.....lb. No stocks
Persian, bgs.....lb. .25½- .26
Syrian, bgs.....lb. .25½- .26
Cutch, 65% tannin, bgs., ex dock....lb. .12 - —
Cyanamide, fertilizer mixing grades, 20.6% N., gran., bulk, Niagara Falls, Ont., contracts, bulk.. unit-ton. 2.15 - —
pulv., 21% N., bgs., same basis, unit-ton. 2.05 - —

Cyclohexane, tech., dms., c.l., works.lb. .09½- —
l.c.l., works.....lb. .10 - —
tanks, works.....lb. .08 - —
Cyclohexanol, tech., dms., c.l., works, lb. .21½- .26
l.c.l., works.....lb. .22 - —
tanks, works.....lb. .20 - —
Cyclohexanone, tech., dms., c.l., works, lb. .26½- .30
l.c.l., works.....lb. .27 - .31
tanks, works.....lb. .25 - .29
Cyclopropane, USP, cyls., dlvd....gal. 27 - —

D

Damiana leaves, bls.....lb. .35 - .40
Dandelion root, bls.....lb. .67 - —
DDT, fiber, dms., c.l., works.....lb. .37½- —
ton lots, works.....lb. .40 - —
tins, smaller lots, works.....lb. .45 - .47
Decanol, normal, tech., dms., dlvd..lb. .35 - —
Deertongue leaves, bls.....lb. .35 - .40
Defluorinated phosphate, 65% b.p.l., paper bgs., Columbus, Ga..ton. 39.25 - —
Texarkana, Ark.....ton. 41.00 - —
Tupelo, Miss.....ton. 39.25 - —
Wales, Tenn.....ton. 39.25 - —
Rock, paper bgs., works.....ton. 34.25 - —
Degras, common, bbls.....lb. .10 - .12
neutral, less 2% ffa., bbls.....lb. .20 - .21
over 2% ffa., bbls.....lb. .19 - .20
Derris root (see Cube root).
Dextrin, British gum, bgs., c.l..100 lbs. 8.50 - —
Chicago.....100 lbs. 8.05 - —
l.c.l.....100 lbs. 8.65 - —
Corn, canary, bgs., c.l.....100 lbs. 8.24 - —
Chicago.....100 lbs. 7.79 - —
l.c.l.....100 lbs. 8.39 - —
dark, bgs., c.l.....100 lbs. 8.34 - —
Chicago.....100 lbs. 7.89 - —
l.c.l.....100 lbs. 8.49 - —
white, bgs., c.l.....100 lbs. 8.09 - —
Chicago.....100 lbs. 7.64 - —
l.c.l.....100 lbs. 8.24 - —
Above prices are for dextrin in paper bgs.; cotton bgs., 17c. higher.
Potato, dom., bgs.....lb. .13 - .13¼
Diacetone (see Alcohol, diacetone).
Diacetyl, flavor grade, bots.....lb. 5.20 - 6.00
laboratory grade, bots....100 grams. 4.50 - —
tech., bots., works.....lb. 3.00 - —
Diamyl ether (see Ether, amyl).
Phthalate, dms., tanks.....lb. No prices
Diamylamine, dms., c.l., works....lb. 1.47 - —
l.c.l., works.....lb. 1.50 - —
Dianisidin, dms.....lb. 1.54 - —
Diatomaceous earth, dom., bgs. c.l., Atlantic coast..ton. 50.00 -52.00
California.....ton. 38.00 -40.00
l.c.l., ex whse.....ton. 80.00 - —
purified, bgs., c.l., Atlantic coast ton. 62.00 - —
California.....ton. 50.00 - —
l.c.l., ex whse.....ton. 90.00 - —
Algerian, bgs., c.l., Atlantic coast, ton. No prices
Mexican, white, bgs., c.l., Atlantic coast..lb. .03 - —
l.c.l. Atlantic coast.....lb. .06 - —
Dibutyl phthalate, dms., c.l.....lb. .33¼- .36
l.c.l.....lb. .34 - .36½
tanks.....lb. .32 - .34½
Sebacate, dms., c.l., works.....lb. .78¾- —
l.c.l., works.....lb. .79¼- —
tanks, works.....lb. .77¾- —
Tartrate dms. wks., frt. alld....lb. .92 - 1.02
Dibutylamine, dms., c.l., works..lb. .76 - —
l.c.l., works.....lb. .79 - —
Dichlorodiphenyldichloroethane, flb. dms., c.l., works..lb. .42½- —
ton lots, works.....lb. .45 - —
tins, small lots, works.....lb. .48 - .50
Dichlorodiphenyltrichloroethane (see DDT).
Dichloroethyl ether (see Ether, dichloroethyl).
Diethanolamine, dms., c.l., frt. alld. E..lb. .25 - —
l.c.l., same basis.....lb. .26 - —
smaller containers, same basis....lb. .29 - —
tanks, same basis.....lb. .23½- —
Diethyl carbonate, dms., l.c.l.....lb. .40 - —
Oxalate, dms., c.l.....lb. .35½- —
l.c.l.....lb. .36½- —
tanks.....lb. .34 - —
Phthalate, dms., c.l., dlvd.....lb. .31½- .32¾
dms., l.c.l., dlvd.....lb. .32 - .33½
tanks, dlvd.....lb. .30 - .31½
Diethyl sulphate, dms., c.l., works..lb. .14 - —
l.c.l., works.....lb. .15 - —
tanks, works.....lb. .13 - —
Diethylamine, dms., c.l., works....lb. .69 - —
l.c.l., works.....lb. .71 - —
tanks, works.....lb. .65 - —
Diethylaminoethanol, dms., l.c.l., works, frt. alld. E. of Miss....lb. .75 - —
Diethylanilin, dms.....lb. .48 - —
Diethyleneglycol, dms., c.l., frt. alld. E..lb. .15 - —
l.c.l., same basis.....lb. .16 - —
tanks, same basis.....lb. .13½- —
Diethylether, dms., works.....lb. .40 - —
Monobutylether, dms., c.l., works, lb. .22 - —
l.c.l., works.....lb. .23 - —
tanks, works.....lb. .21 - —
Monobutylether acetate, dms., c.l., works..lb. .28½- —
l.c.l., works.....lb. .27½- —
tanks, works.....lb. .26½- —
Monoethylether, dms., c.l., works, lb. .17 - —
l.c.l., works.....lb. .18 - —
tanks, works.....lb. .16 - —
Monoethylether acetate, dms., c.l., works..lb. .25½- —
l.c.l., works.....lb. .26½- —
Monomethylether, dms., c.l., works, lb. .21½- —
l.c.l.....lb. .22½- —
tanks.....lb. .20½- —
Monomethylether acetate, dms., c.l., works..lb. .21½- —
l.c.l., works.....lb. .22½- —
Diethylenetriamine, tanks, works..lb. .50 - —
Diethylstilbestrol, bots.....kilo. 320.00 -350.00
Digitalin, cryst., bots.....gram. 18.00-19.00
powd., bots.....gram. 1.25 - 1.75
Digitalis leaves, dms.....lb. 1.05 - 1.16
Diglycol laurate, dms.....lb. .33 - —
Oleate, light, bbls., c.l.....lb. .33 - —
Stearate, bbls., c.l.....lb. .40 - —
Dihydroxydichlorodiphenylmethane, dms..lb. .95 - 1.00
smaller containers.....lb. 1.05 - 1.40
Di-isobutyl ketone, dms., works....lb. .19 - —
Di-isobutylene, dms., c.l., works..lb. .07 - —
l.c.l., works.....lb. .07½- —
tanks, works.....lb. .05½- —
Dillseed, decorticated, bgs.....lb. .16 Nom.
dewhiskered, bgs.....lb. .12½- .13
Dimethyl phthalate, dms., c.l., dlvd. lb. .24¾- —
l.c.l., dlvd.....lb. .25½- —
tanks, dlvd.....lb. .23½- —
Sebacate, dms., c.l., works.....lb. .91 - —
l.c.l., works.....lb. .91½- —
tanks, works.....lb. .90 - —
Sulphate, ret. 55-gal. dms., c.l., works..lb. .15 - —
l.c.l., works.....lb. .16 - —
ret. 10-gal. dms., works.....lb. .16½- —

This dripping young lady may doubt it, but even water can be made wetter. Wyandotte Kreelon, the new soapless detergent, literally forces water to spread quickly, penetrate thoroughly.

A highly effective wetting agent and suds-builder, Kreelon has a variety of applications in the manufacture of finer textiles, paper products, insecticides and cleaning compounds for many industries. Because it retains its wetting, sudsing and cleansing properties in acid, neutral or alkaline solutions and in even the hardest water, it may be used to advantage alone or in solutions and dry mixes with other chemicals.

Kreelon is only one of many organic chemicals to be produced under the tremendous expansion program being carried out by Wyandotte. Also included in this program is the production of glycols and a whole family of related compounds.

In extending its operations into synthetic organics, Wyandotte brings to this field a rich background of research and experience with industrial chemicals. If you have problems that involve the use of any of the chemicals listed below, *why not ask Wyandotte?*

WYANDOTTE CHEMICALS CORPORATION
WYANDOTTE, MICHIGAN • OFFICES IN PRINCIPAL CITIES

Soda Ash • Caustic Soda • Bicarbonate of Soda • Calcium Carbonate • Calcium Chloride • Chlorine • Hydrogen • Dry Ice • Glycols
Ethylene Dichloride • Propylene Dichloride • Chloroethers • Aromatic Sulfonic Acid Derivatives • Other Organic and Inorganic Chemicals

Wyandotte
REG. U. S. PAT. OFF.

Dimethylamine, anhyd., cyl., works, basis 100%..lb. .38½- .48¼
25%-40%, dms., c.l., works, basis 100%..lb. .38 - —
l.c.l., works, basis 100%.....lb. .38½- —
tanks, works, basis 100%.....lb. .33 - —
Dimethylanilin, dms., c.l.....lb. .21 - .24¼
l.c.l. .....lb. .22 - —
Dinitrobenzene, bbls.....lb. .16 - —
Dinitrochlorobenzene, dms.....lb. .14 - .15½
Dinitronaphthalene, kgs.....lb. .35 - .38
Dinitrophenol, bbls.....lb. .22 - —
Dinitrotoluene, oily, dms.....lb. .07 - .07¾
refd., dms.....lb. .18 - —
Dinonylnaphthalene, tanks, works..lb. .15 - —
Diorthotolyguanidin, dms., ton lots, divd..lb. .44 - —
smaller lots, divd.....lb. .46 - .47
Dioxan, dms., c.l., frt. alld.....lb. .20 - —
l.c.l., same basis.....lb. .21 - —
tanks, same basis.....lb. .19 - —
Dip oil (see Tar acid oil).
Dipentene, dest.-dist., dms. incl., c.l., works, South..gal. .45 - —
l.c.l., same basis.....gal. .46 - —
N. Y. whse.....gal. .50 - —
steam-dist., dms., whse., N.Y.C...gal. .70 - —
tanks, divd, E.....gal. 1.65 - —
Diphenyl, bbls., c.l., works.....lb. .15 - —
l.c.l., works.....lb. .16 - .20
Oxide, perfume grade, cns.....lb. .50 - .61
dms.....lb. .45 - .56
Diphenylamine, bbls.....lb. .25 - —
Diphenylguanidin, dms., ton lots..lb .35 - —
smaller lots.....lb. .36 - .37
Divi-divi, 38% tannin, bgs., bls., c.l., U.S. ports, ex dock..ton.61.00 -62.00
Doggrass root, dom., cut, bls.....lb .27 - .28
imp., N.F., cut, bls.....lb .31 - .32
Dogwood, Jamaica, bark, bls.....lb. .12 - .14
Dragon's blood, drops, cs.....lb. .45 - .47
mass, cs.....lb. 1.50 - 1.55
reeds, cs ..... No stocks

Dyes, coaltar, certified colors for foods, drugs and cosmetics, 5-lb. lots:—
Blue, FD&C, No. 1, cns.....lb.13.00 - —
Green, FD&C, No. 1, cns.....lb.13.00 - —
No. 2, cns.....lb.17.00 - —
No. 3, cns.....lb.27.00 - —
Orange, FD&C, No. 1, cns.....lb. 2.80 - —
No. 2, cns.....lb. 3.55 - —
Red, FD&C, No. 1, cns.....lb. 5.75 - —
No. 2, cns.....lb. 3.05 - —
No. 3, cns.....lb.17.00 - —
No. 4, cns.....lb. 5.50 - —
No. 32, cns.....lb. 4.05 - —
Yellow, FD&C, No. 1, cns.....lb. 8.00 - —
No. 3, cns.....lb. 2.55 - —
No. 4, cns.....lb. 2.55 - —
No. 5, cns.....lb. 3.05 - —
No. 6, cns.....lb. 3.05 - —

Dyes, coaltar, certified colors for drugs and cosmetics, 1-lb. lots:—
Black, D&C, No. 1, cns.....lb. 8.35 - —
Blue, D&C, No. 4, cns.....lb.12.35 - —
Brown, D&C, No. 1, cns.....lb.12.35 - —
Green, D&C, No. 5, cns.....lb.12.35 - —
No. 6, cns.....lb.12.35 - —
Orange, D&C, No. 3, cns.....lb. 8.35 - —
No. 4, cns.....lb.15.35 - —
No. 10, cns.....lb.15.85 - —
Red, D&C, No. 8, cns.....lb. 2.85 - —
No. 17, cns.....lb. 8.35 - —
No. 18, cns.....lb.15.35 - —
Yellow, D&C, No. 7, cns.....lb. 8.35 - —
No. 8, cns.....lb. 8.35 - —
No. 11, cns.....lb.10.35 - —
No. 19, cns.....lb.15.35 - —
No. 22, cns.....lb. 8.35 - —
No. 33, cns.....lb.13.35 - —
No. 37, cns.....lb.12.35 - —

Dyes, coaltar, certified colors for external use drugs and cosmetics, 1-lb. lots:—
Blue, Ext. D&C, No. 1, cns.....lb.12.35 - —
Green, Ext. D&C, No. 1, cns.....lb.12.35 - —
Red, Ext. D&C, No. 1, cns.....lb.10.35 - —
No. 3, cns.....lb.21.85 - —
No. 8, cns.....lb. 7.85 - —
No. 10, cns.....lb.12.35 - —
No. 13, cns.....lb.12.35 - —
Yellow, Ext. D&C, No. 1, cns.....lb. 8.35 - —

Dyes, coaltar, for general uses (numbers are those of the Colour Index scale).
40 Chrome yellow R.....lb. .72 - —
53 Victoria violet.....lb. 1.25 - —
165 Lake red C.....lb. .94 - —
170 Fast red A.....lb. .66 - —
180 Fast red VR.....lb. .63 - —
202 Chrome blue black U.....lb. .42½- —
204 Chrome black A.....lb. .47 - —
208 Fast acid blue R.....lb. .63 - —
216 Chrome red B.....lb. .57 - —
289 Fast cyanin 6R.....lb. .90 - 1.00
299 Chrome black F.....lb. .94 - —
364 Paper yellow.....lb. 1.06 - —
367 Fast cyanin black B.....lb. .77 - —
376 Direct fast scarlet.....lb. 2.03 - —
385 Chrysophenin G .....lb. 1.59 - —
382 Direct scarlet B.....lb. 1.16 - —
387 Direct violet B.....lb. 1.41 - —
394 Direct violet N.....lb. 1.65 - —
401 Developed black BHN.....lb. .80 - —
406 Direct blue 2B.....lb. 1.10 - —
415 Direct orange B.....lb. .60 - —
419 Direct fast red F.....lb. .97 - —
420 Direct brown M.....lb. .76 - —
448 Benzopurpurin 4B.....lb. .72 - —
495 Benzopurpurin 10B.....lb. 1.32 - —
502 Direct azurin G.....lb. 1.05 - —
512 Direct blue RD.....lb. 1.65 - —
518 Direct pure blue 6B.....lb. 2.67 - —
520 Direct pure blue.....lb. 1.32 - —
539 Direct fast black F.....lb. 1.10 - —
581 Direct black EW.....lb. .55 - —
582 Direct black RX.....lb. .66 - —
593 Direct green B.....lb. .66 - —
594 Direct green G.....lb. .70 - —
596 Direct brown 3GO.....lb. .69 - —
620 Direct yellow R.....lb. .63 - —
698 Acid violet.....lb. .93 - —
812 Primulin .....lb. .77 - —
814 Direct fast yellow.....lb. .97 - —
865 Nigrosin (water-soluble).....lb. .38 - —
1177 Indigo, 20%, paste.....lb. .20½- —
Benzo fast black L.....lb. 1.49 - —
Sulphur black.....lb. .29 - —
Sulphur blue.....lb. 1.06 - —
Zambesi black.....lb. 1.08 - —

Dyes, coaltar, for stains, oil-soluble (prices E, in barrels of 250 lbs. each; smaller lots, 3c. per lb. higher, sellers' works or warehouse).
Black—
865 Nigrosin derivatives .....lb. .38 - —
Blue—
1075 Alizarin astral base.....lb. 2.48 - —
1073 Alizarin, irisol R .....lb. 3.96 - —
Brown—
Brown, oil-soluble .....lb. 1.88 - —
Green—
1078 Alizarin cyanin green base.lb. 2.20 - —
Orange—
24 Sudan I .....lb. .61 - —
Red—
258 Sudan IV.....lb. 1.10 - —
680 Oil violet .....lb. .88 - —
749 Rhodamine B (oil pink)....lb. 5.23 - —
1086 Anthraquinone, violet base.lb. 5.50 - —
Yellow—
15 Amidoazobenzene yellow...lb. .90 - —
17 Amidoazotoluene yellow...lb. .77 - —
61 Yellow, OB .....lb. 1.40 - 2.00

Dyes, coaltar, for stains, spirit-soluble (prices E, in barrels of 250 lbs. each; smaller lots, 3c. per lb. higher, sellers' works or warehouse).
Black—
864 Nigrosin .....lb. .40 - —
Blue—
860 Indulin .....lb. .68 - .70
Brown—
331 Bismarck brown.....lb. .83 - —
Green—
657 Malachite green base.....lb. 1.43 - —
Orange—
20 Chrysoidin G.....lb. .42 - —
Red—
677 Fuchsin, magenta, base...lb. 2.31 - —
749 Rhodamine B .....lb. 5.23 - —
Yellow—
67 Amidoazotoluene yellow...lb. .77 - —
655 Auramine .....lb. 2.20 - —
809 Chinolin yellow SS.....lb. 2.00 - —
Violet—
680 Methyl violet base.....lb. .88 - —

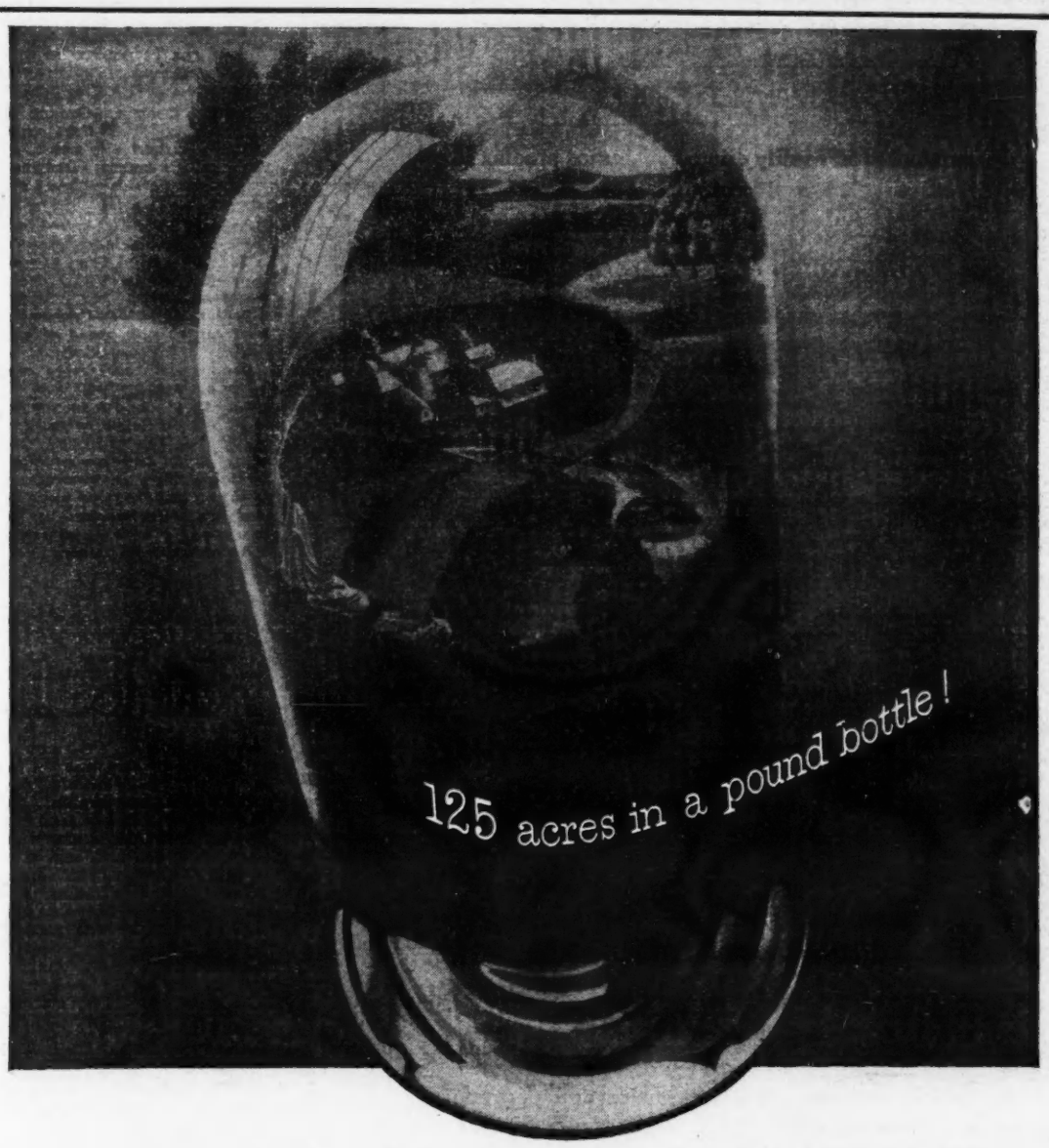
Dyes, coaltar, for stains, water-soluble (prices in barrels of 250 lbs. each; smaller lots, 3c. per lb. higher, sellers' works or warehouse).
Black—
246 Naphthol blue black S.....lb .53 - —
873 Methylene gray .....lb. 1.50 - —
Blue—
714 Patent blue A.....lb. 2.48 - —
729 Victoria blue B.....lb. 2.53 - —
861 Indulin .....lb. .99 - —
900 New blue F.....lb. 1.43 - —
922 Methylene blue.....lb. 1.49 - —
1054 Alizarin saphirol B.....lb. 1.98 - —
1180 Indigotin IA .....lb. .94 - —
Brown—
234 Resorcin brown Y.....lb. .99 - —
235 Resorcin dark brown R....lb. .65 - —
331 Bismarck brown G.....lb. .83 - —
332 Bismarck brown R.....lb. .53 - —
793 Phosphin .....lb. 1.83 - —

Dyes, coaltar, for stains, water-soluble (prices in barrels of 250 lbs. each; smaller lots, 3c. per lb. higher, sellers' works or warehouse).
Green—
5 Naphthol green B.....lb. 1.07 - —
657 Malachite green.....lb. 1.43 - —
662 Brilliant green.....lb. 2.09 - —
666 Guinea green B .....lb. 2.14 - —
737 Wool green S.....lb. 1.62 - —
924 Methylene green B.....lb. 1.55 - —
1078 Alizarin cyanin green.....lb. 2.20 - —
Orange—
20 Chrysoidin G .....lb .42 - —
21 Chrysoidin R .....lb. .39 - —
27 Orange G .....lb. .53 - —
151 Orange Y.....lb. .31 - —
161 Orange R .....lb .53 - —
Red—
31 Amidonaphthol red G.....lb. .66 - —
57 Amidonaphthol red 6B.....lb. .90 - —
79 Ponceau R .....lb. .51 - —
88 Fast red B .....lb. .53 - —
178 Fast red A .....lb. .66 - —
179 Azorubin .....lb. .70 - —
183 Crocein scarlet 3BX.....lb. .72 - .75
185 Cochineal red A.....lb. .60 - —
237 Brilliant crocein M.....lb. .99 - —
677 Fuchsin .....lb. 2.31 - —
749 Rhodamine B .....lb. 5.23 - —
752 Rhodamine 6B .....lb. 4.95 - —
768 Eosin G .....lb. 1.50 - —
841 Safranin .....lb. 1.97 - —
Violet—
680 Methyl violet B.....lb. .88 - —
681 Crystal violet B.....lb. 1.91 - —
695 Acid violet 4BN.....lb. .93 - —

Dyes, coaltar, for stains, water-soluble (prices in barrels of 250 lbs. each; smaller lots, 3c. per lb. higher, sellers' works or warehouse).
Yellow—
10 Naphthol yellow S.....lb. .95 - —
138 Metanil yellow .....lb. .62 - —
636 Fast light yellow.....lb. 1.50 - —
639 Xylene light yellow.....lb 1.32 - —
640 Tartrazin .....lb. .90 - —
655 Auramine .....lb. 2.20 - —
Dyes, natural (see name of material).

E

Echinacea root, bls. .....lb. .65 - .70
Egg albumen (see Albumen).
Yolk, dried, dom., bbls.....lb. 1.20 - 1.25
tanners, bbls. .....lb. .06 - .07
Elder flowers, bright, bls.....lb .65 - .66
Elecampane root, bls.....lb. .35 - .40
Elm bark, grinding, bls.....lb. .35 - .36
powd., bbls., bxs.....lb .45 - .50
select, bndls.....lb .55 - .56
Emetine hydrochloride, bots.....oz.53.50 -54.00
Ephedra herb, bls.....lb. .20 - .21
Ephedrine, synthetic, USP, anhydrous, bots., 100 ozs..oz. .84 - —
hydrous, bots., 100 ozs.....oz. .76 - —
Hydrochloride, tin, 100 ozs....oz. .60 - —
Sulphate, cryst., tins, 100 ozs..oz. .57 - —
powd., tins, 100 ozs.....oz. .58 - —
Epichlorohydrin, dms., c.l., works, lb. .40 - —
l.c.l., works.....lb. .40½- —
tanks, works.....lb. .44½- —
Epinephrine, synth., USP, bots..gram. .60 - .70



Fantastic as it seems, the effective *ad*sorbent surfaces of a pound of activated carbon are actually equal in area to about 125 acres.

We don't pretend to know how this can be possible, but our research men, who understand such things, have figured it out scientifically. We like to think of *what* it does rather than *how* it does it.

For example, when used to isolate streptomycin from the mold liquor in which it is produced, a *Pittsburgh* activated carbon, tailor-made for this purpose and with greater adsorptive capacity, assisted materially in the rapid development of a process with a capacity sufficient to permit removal of the "wonder drug" from the government's critical list. Soon streptomycin may be as available as penicillin.

Less dramatically, but like the producer of streptomycin, a manufacturer of water purification systems for homes, institutions, and industries tested every available adsorbent and then selected a *Pittsburgh* activated carbon which was specifically designed to meet the exacting requirements of his purification systems.

If your "problem" involves the use of an adsorbent, in gas or liquid phase, for purification, solvent recovery, decolorization, deodorization, fractionation, isolation, catalysis or air conditioning, you should investigate the adaptability of activated carbon to your processes. *Pittsburgh* activated carbon is produced in the types and grades usually required, or a special type can be developed for your specific need. Your inquiries are invited. Write for latest price list.

P C&C C

PITTSBURGH COKE & CHEMICAL COMPANY
Grant Building · Pittsburgh 30, Pa.

COAL CHEMICALS · ACTIVATED CARBON · NEVILLE COKE · EMERALD COAL · PIG IRON · GREEN BAG CEMENTS · CONCRETE PIPE AND CONCRETE PRODUCTS · LIMESTONE PRODUCTS

Epsom Salt, Technical—Glue, Hide

Epsom salt, tech., cryst., bgs., c.l., 100 lbs. 2.05 - —
l.c.l. 100 lbs. 2.40 - 2.65
USP, cryst., bgs., c.l. 100 lbs. 2.25 - —
l.c.l., 5,000 lbs., 1 withdrawal, 100 lbs. 2.50 - —
smaller lots 100 lbs. 2.75 - —
bbls., c.l. 100 lbs. 2.35 - —
l.c.l., 5,000 lbs., 1 withdrawal, 100 lbs. 2.60 - —
smaller lots 100 lbs. 2.85 - —
kgs., c.l. 100 lbs. 2.60 - —
l.c.l., 5,000 lbs., 1 withdrawal, 100 lbs. 2.85 - —
smaller lots 100 lbs. 3.10 - —
Epsom salt prices freight equalized: Balto., Carteret, N. J.; Chicago, Cincinnati, Cleveland, Midland, Mich.
Ergot, USP, cns. lb. 1.25 - 1.30
Eserine, bots. oz. No prices
Sulphate, bots. oz. 6.00 - —
Ether, acetic (see Ethyl acetate)
Amyl, dms., c.l., works lb. .095 - —
l.c.l., works lb. .102 - —
tanks, works lb. .085 - —
Butyl, dms., l.c.l., dlvd lb. .31 - —
Butyric (see Ethyl butyrate).
Dichloroethyl, ourif., dms., works, frt. equald. lb. .13½- —
l.c.l., same basis lb. .14 - —
tanks, same basis lb. .12½- —
Ethyl (see Ether, sulphuric).
Isopropyl, dms., c.l., dlvd lb. .06 - —
l.c.l., dlvd lb. .06½- —
tanks, dlvd lb. .04½- —
Nitrous, conc., bots., 100 lbs. lb. .98 - 1.10
Sulphuric, conc., dms. lb. .18 - .23
USP, anethesia, hospital, cns. lb. .61 - .75
synthetic, dms., c.l., frt. alld. lb. .18 - —
l.c.l., same basis lb. .19 - —
tanks, same basis lb. .16 - —
Ethyl acetate, natural, fermentation, 85-88% dms., c.l., frt. alld. lb. .17½- —
l.c.l., frt. alld. lb. .18½- —
tanks, frt. alld. lb. .16 - —
95-98%, dms., c.l., frt. alld. lb. .18 - —
l.c.l., frt. alld lb. .19 - —
tanks, frt. alld lb. .16½- —
99%, dms., c.l., frt. alld. lb. .18¼- —
l.c.l., frt. alld. lb. .19¼- —
tanks, frt. alld. lb. .16¾- —
USP, dms. lb. .27 - —
synthetic, 85-90%, dms., c.l., frt. alld. lb. .13½- —
l.c.l., frt. alld. lb. .14 - —
tanks, frt. alld. lb. .12 - —
95-98%, dms., c.l., frt. alld. lb. .13¾- —
l.c.l., frt. alld. lb. .14¼- —
tanks, frt. alld. lb. .12½- —
Acetoacetate, dms., c.l., works lb. .50½- —
l.c.l., frt. alld. lb. .51½- —
Benzoate, bots. lb. .69½- .66
Betaethoxypropionate, dms, works, lb. .70 - —
Bromide, tech., 98%, dms. lb. .36 - .40
Butyrate, bots. gal. 5.50 - —
cns., works lb. .65 - .70
dms., works lb. .60 - —
Carbamate, dms., dlvd. E. lb. .58 - —
Chloride, tech., tanks lb. .13½- —
USP, bbls., cyl. lb. .20 - .22
Cinnamate, cns. lb. 2.35 - 3.25
Formate, dms., Agnue, Calif. lb. .26 - .32
Iodide, bots. lb. 3.50 - 3.60
Lactate, dms., works lb. .38½- —
Methyerylate, M-2, dms., works lb. .60 - —
cns., works lb. .63 - .67
P-2, cns., works lb. .65 - —
Myristate, dms., works lb. No prices
Oenanthate, dms. lb. 2.60 - 3.25
Ethyl oleate, dms., l.c.l., works lb. .47 - —
Oxalate, dms., frt. alld. lb. .38 - —
Silicate, dist. (see Tetraethyl orthosilicate).
40% available SiO_2, dms., works, lb. .50 - —
Ethylalphanaphthylamine, bbls. lb. .75 - —
Ethylanilin, dms. lb. .60 - —
Ethylcellulose fib. dms., 5,000 lbs., works lb. .52 - —
smaller lots, works lb. .54 - .62
Ethyldiethanolamine, dms., l.c.l., works lb. .80 - —
Ethylene dichloride dms., c.l., works, frt. alld. E. of Rockies lb. .08½- —
West of Rockies lb. .09 - —
l.c.l., works, frt. alld. E. of Rockies lb. .09½- —
West of Rockies lb. .10 - —
smaller containers lb. .12½- —
tanks, frt. alld. E. Rockies lb. .07 - —
West of Rockies lb. .07½- —
Ethylene oxide, dms., c.l., works lb. .20 - —
l.c.l., works lb. .21 - —
tanks, works lb. .15 - —
Trichloride (see Trichloroethane).
Ethylenediamine, tanks works lb. .50 - —
Ethyleneglycol, dms., c.l., frt. alld. E. lb. .12½- —
l.c.l., same basis lb. .14½- —
tanks, same basis lb. .12 - —
Monobutylether, dms., c.l., works lb. .21 - —
l.c.l., works lb. .22 - —
tanks, works lb. .20 - —
Monoethylether, dms., c.l., works lb. .17 - —
l.c.l., works lb. .18 - —
tanks, works lb. .16 - —
Monoethylether acetate, dms., c.l., works lb. .15 - —
l.c.l., works lb. .16 - —
tanks, works lb. .14 - —
Ethyleneglycol monomethylether, dms., c.l., works lb. .18 - —
l.c.l., works lb. .19 - —
tanks, works lb. .17 - —
Monomethylether acetate, dms., c.l., works lb. .23 - —
l.c.l., works lb. .24 - —
tanks lb. .22 - —
Ethylethanolamine, dms., c.l., works lb. .57 - —
l.c.l., works lb. .60 - —
Ethylmonoethanolamine, l.c.l., dms., works lb. .80 - —
Ethylmorphine, hydrochloride, bots. oz. 10.50 -10.75
Ethylorthotoluidine, bbls. lb. .80 - —
Ethylvanillin, cns., 5 lbs. or more lb. 6.75 - —
smaller lots lb. 6.80 - 6.90
Eucalyptol, USP, cns., dms. lb. 2.65 - 4.00
Eucalyptus leaves, bls. lb. .14 - .15
Eugenol, prime, USP XII. lb. 2.35 - 3.25
Euphorbia herb, bls. lb. .18 - .19

F

Feldspar, enamel, 100 mesh, bgs., works, ton 17.00 -20.50
bulk, c.l., works ton 14.00 -17.50
glass, 20 mesh, bgs., tons, works, ton 12.75 -16.25
bulk, c.l. ton 9.75 -12.25
Pottery, bgs., l.c.l., 2 tons, works ton 20.00 -22.00
bulk, c.l., works ton 17.00 -19.00
Fennel seed, Argentine, bgs., futures, lb. 07½- 07¾
Indian, bgs., afloat lb. .15½- 16
Fenugreek, domestic, bgs. lb. .10 - .10½
Indian, bgs. lb. .09½- .10
fetures, bgs lb. .09 - .09½
Ferric sulphate (see Iron sulphate, ferric).
Film scrap, colored, cs., works lb. .14½- —
water-white, cs., works lb. .15½- —
Fir balsam, Canada, cns. gal. 24.00 -25.00
Oregon, bbls. gal. 2.35 - 2.65
Fishberries, bgs. lb. .24 - .25
Fishliver oils (see Oil, fishliver).
Fishmeal, grd., 60% protein, bgs., Balto. area ton 140.00 - —
65% protein, bgs., Balto. area ton 140.00 - —
Fishscrap, dried, 60% protein, bulk, Balto area ton 125.00 - —
Fleaseed, black, bgs. lb. .45 - .46
blonde, bgs. lb. .26 - .27
Husks, bgs lb. .66 - .67
Fluorspar, No. 1, ground 95-98% CaF_2, bulk, c.l., mines, net ton 37.00 - —
washed gravel, 70% or more CaF_2, bulk c.l., mines ton 33.00 - —
65%, bulk c.l., mines ton 32.00 - —
60%, bulk c.l., mines ton 31.00 - —
less than 60%, bulk, c.l., mines ton 30.00 - —
Formaldehyde, bbls., c.l., works lb. .0615- .0695
l.c.l., works lb. .0695- .0745
dms., extra, c.l., works lb. .0515- .0595
l.c.l., works lb. .0595- .0645
tanks, works lb. .0370- .0420
tanktrucks, dlvd. N.Y.C. lb. .0395- .0445
Fringetree bark, bls. lb. .65 - .66
Fuller's earth, dom., powd., bgs., c.l., Fla., Ga. mines ton 30.00 - —
Tex. mines ton 27.00 - —
spent, bulk, Bayonne ton 2.00 - 4.00
imp., bgs., c.l ton 30.00 -40.00
Furfural, tech., dms., c.l., works lb. .13 - —
dms., cns., l.c.l., works lb. 15½- .20½
tanks, works lb. 09½- —
Fusel oil, dms., c.l. lb. .20½- —
l.c.l. lb. .27½- —
tanks lb. .25 - —
Fustic extract, cryst., No. 1, bbls., l.c.l. lb. .41 - —
N. 1A bbls., l.c.l. lb. .40 - —
No. 2, bbls., l.c.l. lb. .39 - —
No. 3, bbls., l.c.l. lb. .37 - —
liquid, No. 0, bbls., l.c.l. lb. .21½- —
No. 1 bbls., l.c.l. lb. .20 - —
No. 2, bbls., l.c.l. lb. .19 - —
No. 3, bbls., l.c.l. lb. .16½- —
solid, No. 1, bxs, l.c.l. lb. .27 - —

G

G salt, bbls. lb. .55 - —
Galangal root, bls. lb. .25 - .26
Gambier, plantation, bgs., ex dock lb. .21 - .23
Extract, bbls. lb. No stocks.
Gammapicoline, 96%, dms., c.l., works, lb. 1.35 - —
Gasoline, at refinery, ex tax, Arkansas, 73-75 octane, tanks, gal. .0875- —
Bayonne, 74 octane, tanks gal. .09 - —
Gulf coast, 73-75 octane, tanks, gal. .0825- .085
Group 3, 73-75 octane, tanks, gal. .08375- .0860
Pennsylvania, western, U. S. motor, 74 octane leaded, tanks, gal. .0975- .1000
natural, 26-70, octane group 3, tanks gal. .08375- —
Gelatin, silver label, cns., dlvd lb. 1.25 - —
export, cs. lb. 1.35 - —
Gelatin prices 5c. higher for deliveries in Ariz., Calif., Colo., Idaho, Mont., Nev., N. Mex., Ore., Tex., Utah, Wash, Wyo.
Gelseminum root, bls lb. .35 - .40
Gentian root, bls lb. .20 - .21
grd., bbls., bxs. lb. .26 - .27
powd., bbls., bxs. lb. .24 - .25
Geraniol, 92-96%, cns., dms. lb. 3.40 - —
prime lb. 2.75 - —
Geranyl acetate, cns. lb. 3.35 - 3.85
Ginger, oleoresin, bots. lb. 4.25 - 4.75
Root, African, No. 1, bls. lb. .13 - .13½
Cochin, bleached, bgs. lb. .16 - .16½
unbleached, bgs. lb. .15 - .15½
Jamaica, No. 1, bgs. lb. .18 - .18½
No. 2, bgs. lb. .15½- .16
No. 3, bgs. lb. .15 - .15½
Rhattoon, bgs. lb. .13½ Nom.
Glauber's salt, anhyd. (see Sola sulphate)
cryst., bgs., works 100 lbs. 1.25 - 1.75
l.c.l., bgs., works 100 lbs. 1.65 - 2.10
Glue, bone, calcium type, 24 millipoise, 36 jellygrams, bgs., c.l., East of Midwest lb. .21 - .24
30/56, bgs., c.l., same basis lb. .22 - .26
58/82, bgs., c.l., same basis lb. .23 - .26
82/108, bgs., c.l., same basis lb. .25 - .27
Bone glue, l.c.l. prices 1c. higher than c.l.
Hide 100-121 (jelly test in grams), bgs., c.l., dlvd lb. .20 - .24½
122-149, bgs., c.l., dlvd lb. .21 - .25½
150-177, bgs., c.l., dlvd lb. .22 - .26½
178-206, bgs., c.l., dlvd lb. .23 - .27½
207-236, bgs., c.l., dlvd lb. .24 - .28½
237-266, bgs., c.l., dlvd lb. .25 - .29½
267-298, bgs., c.l., dlvd lb. .26 - .30½
299-330, bgs., c.l., dlvd lb. .27 - .31½
331-362, bgs., c.l., dlvd lb. .28 - .32½
363-394, bgs., c.l., dlvd lb. .29 - .33½
395-427, bgs., c.l., dlvd lb. .30 - .34½
428-460, bgs., c.l., dlvd lb. .31 - .35½
461-494, bgs., c.l., dlvd lb. .32 - .36½
495-529, bgs., c.l., dlvd lb. .33 - .37½
Hide glue l.c.l. prices 1c. higher than c.l.; bbls., ½c. more than bgs.

CELANESE NOW OFFERS CP ACETONE

ANOTHER CELANESE* CHEMICAL AVAILABLE TO INDUSTRY

Celanese CP Acetone is now available in tank car or drum quantities for immediate shipment. Increased production makes possible the availability of this reagent grade Acetone.

Specifications:

% Acetone Content	99.5 min.
Sp. Gr. 20/20°C.	0.7915—0.7930
Distillation Range °C.	1°C. incl. 56.1°
Color APHA	5 max.
% Acid as acetic	.002% max.
Alkalinity as NH_3	1 ppm max.
Non-volatile	Max. .001 gr. per 100 cc sample
Permanganate time	2 hours min.
Aldehydes	None
Water	Less than 0.5% (miscible with 19 vol. 60° Be' gasoline at 20°C.)

For samples and any additional technical data desired, write to Celanese Chemical Corporation, a division of Celanese Corporation of America, 180 Madison Avenue, New York 16, N.Y.

SEVEN NEW CHEMICALS

Here are the seven New Chemicals announced by Celanese in recent months. Some of them are already in volume production.

Normal Propyl Alcohol

Propionaldehyde

Methylal

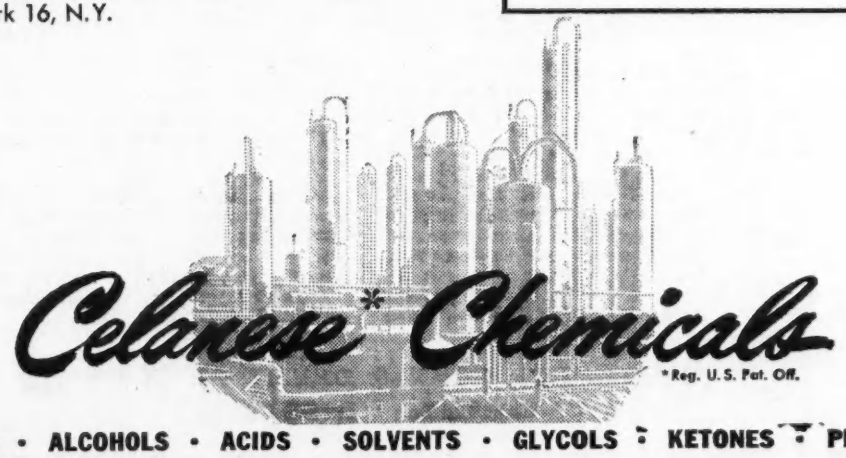
Tetrahydrofuran

Methyl Ethyl Ketone

Butyl Alcohols

Methyl Pentanediol

Perhaps some of these new chemicals will be useful in further development of your processes and plans. Write us about your problems and Celanese Research and Technical Service will go to work for you.



Celanese* Chemicals

*Reg. U. S. Pat. Off.

ALDEHYDES • ALCOHOLS • ACIDS • SOLVENTS • GLYCOLS • KETONES • PLASTICIZERS

Glycerin, crude, saponification, 88%, to refiners, tanks, dlvd..lb. .23 - .24
soaplye, 80%, tanks, dlvd.....lb. .22 - .23
dynamite, dms., c.l., dlvd.....lb. .29½- —
l.c.l., dlvd. .....lb. .30 - —
tanks, dlvd. .....lb. .29¼- —
high gravity, dms., c.l.....lb. .29½- —
l.c.l. .....lb. .30 - —
tanks .....lb. .29¼- —
refined, BP, 98%, dms., c.l.....lb. .29¾- —
tanks .....lb. .29½- —
USP, 95%, dms., c.l. .....lb. .29½- —
l.c.l. .....lb. .30 - —
tanks .....lb. .29¼- —
yellow, distilled, dms., c.l.....lb. .29¾- —
l.c.l. .....lb. .29¾- —
Glycine, USP (see Acid, aminoacetic).
Glycol boriborate, dms.....lb. .22 - —
Stearate, dms. .....lb. .26 - —
Gold chloride, acid-brown, bots.....oz. 20.00 -20.50
acid-yellow, bots. .....oz. 18.75 -19.00
Gold of pleasure seed, bgs., futures..lb. .30 - .31
Goldenseal root, bls.....lb. 7.85 - 8.10
powd., bxs. .....lb. 8.35 - 8.60
Gold-sodium chloride, photo, bots...oz. 13.00 -13.50
USP IX, bots .....oz. 14.00 -14.50
Grains of paradise, bgs.....lb. .40 - .42
Graphite, imported, amorph., powd., bgs., dlvd..lb. .04 - .06
crystalline, 88-90%, powd., bgs., ex whse..lb. .14 - .16
90-92%, powd., bgs., ex whse. lb. .16 - .19
97%, powd., bgs., ex whse....lb. .22 - .25
flake, No. 1, 90-95%, crtns, bgs., ex whse..lb. .21 - .22
No. 2, bgs., ex whse.....lb. .22 - .24
Grease, house, loose.....lb. .20½- —
White, choice, loose.....lb. .22 - —
Wool (see Degras and Lanolin).
Yellow, loose.....lb. .20½- —
Green, brilliant, thioflavin toner, molybdic, kgs., works..lb. 4.25 - 4.50
Tungstic, kgs., works.....lb. 4.25 - 4.50
Chrome, CP, dark, light, medium, blue content up to 5%, bbls., dlvd. N. of Tenn. and N.C. E. of Miss., including St. Paul, Minneapolis, Davenport, Rock Island, St. Louis..lb. .32 - —
6-10%, bbls., same basis..lb. .33 - —
11-15%, bbls., same basis..lb. .34 - —
16-20%, bbls., same basis..lb. .34½- —
21-25%, bbls., same basis..lb. .35½- —
26-30%, bbls., same basis..lb. .35¾- —
31-35%, bbls., same basis..lb. .35½- —
36-40%, bbls., same basis..lb. .38½- —
41-45%, bbls., same basis..lb. .40 - —
46-50%, bbls., same basis..lb. .41¾- —
50% and over, bbls., same basis..lb. .42¾- —
reduced color, 5%, bbls., same basis..lb. .10 - —
6-10%, bbls., same basis..lb. .10¾- —
11-13%, bbls., same basis..lb. .11¼- —
14-16%, bbls., same basis..lb. .12 - —
17-19%, bbls., same basis..lb. .12¼- —
20-21%, bbls., same basis..lb. .12½- —
22-23%, bbls., same basis..lb. .12¾- —
24-25%, bbls., same basis..lb. .13 - —
26-27%, bbls., same basis..lb. .13½- —
28-29%, bbls., same basis..lb. .14 - —
30-31%, bbls., same basis..lb. .15 - —
32-33%, bbls., same basis..lb. .16¼- —
34-35%, bbls., same basis..lb. .17¼- —
36-40%, bbls., same basis..lb. .20 - —
41-45%, bbls., same basis..lb. .22¼- —
46-50%, bbls., same basis..lb. .23¾- —
51-55%, bbls., same basis..lb. .23⅞- —
56-60%, bbls., same basis..lb. .24 - —
61-65%, bbls., same basis..lb. .25 - —
66-70%, bbls., same basis..lb. .26½- —

Chrome green prices are ½c. higher dlvd. Ala., Fla., Ga., La. (Shreveport, 1½c.), Miss., N. C., S. C., Tenn., Texas (Dallas Ft. Worth, 1¼c.; El Paso, 2c.), Cedar Rapids, Des Moines, Kansas City, Lincoln, Omaha, St. Joseph; 1c. higher dlvd. Pac. coast; for Denver, Pueblo, Salt Lake City, Wichita, prices are equalized with Chicago.

Chrome oxide, hydrated, bbls., works..lb. .83 - —
pure, bgs., works.....lb. .30 - .33
Malachite, thioflavin toner, molybdic, bbls., works..lb. 3.00 - —
Tungstic, bbls., works.....lb. 3.40 - —
Paris (see P).
Phthalocyanin toner, bbls., works, lb. 4.40 - 5.00
Green, tungstated, brilliant, kgs....lb. 3.00 - 4.00
Emerald, kgs.....lb 2.60 - —
Verdigris (see V).
Green dyes (see Dyes, coaltar).
Grindelia robusta herb, bls.....lb. .30 - .35
Guaiac resin, cs.....lb. .48 - .49
Wood, bls.....lb. .35 - .36
Guaiacol, cryst., NF, tins.....lb. 1.75 - —
liquid, NF, bots., cbys.....lb. 1.80 - —
Carbonate, NF, dms.....lb. 2.35 - —
Guarana, powd., cs.....lb. 2.00 - 2.10
Gum, accroides (see Gum, yacca).
Aloe (see A).
Ammoniac, tears, cs.....lb. .90 - .95
Arabic, amber, sorts, bgs.....lb. .14½- .15
white, sorts, 1, bgs.....lb. .28 - .29
powdered, USP, bbls.....lb. .20½- .21
Asafetida (see A).
Asphalthum (see A).
Batu, bold, cs.....lb. No prices
nubs, chips, bgs.....lb No prices
Benzoin, Sumatra, cs.....lb. .50 - .55
Camphor (see C).
Copal, Congo, bgs.....lb. No prices
East India, bgs.....lb. No prices
Manila, baskets.....lb. No prices
Dammar, Batavia, AE, cs.....lb. No prices
F, cs.....lb. No prices
Singapore, No. 1, cs.....lb. No prices
No. 2, cs.....lb. No prices
Elemi, cns.....lb. No prices
Ester, gum-rosin type, dms., c.l., dlvd. Ill., Ind., Ky., Mich., Mid-Atl. States, N. E. States, Minneapolis, N. C., Ohio, St. Louis, St. Paul, Va., W. Va.....lb. .16¾- —
wood-rosin type, dms., any quantity, dlvd., Ill., Ind., etc..lb. .16¾- —
Euphorbium, cs.....lb. 1.50 Nom.
Galbanum, cs.....lb. .85 - .90
Gamboge, pipe, cs.....lb. 1.70 - 2.00
powd., bbls.....lb. 1.95 - 2.25
Ghatti, No. 2, bgs.....lb. .35 - .37
No. 3, bgs.....lb. .31 - .33
Guaiac (see Guaiac resin).
Karaya, No. 1.....lb. .46 - .51
No. 2.....lb. .38 - .43
No. 3.....lb. .33 - .36
No. 4.....lb. .28 - .31
No. 5.....lb. .23 - .27
No. 6.....lb. .20 - .22
Kauri, bgs.....lb. .31 - —
Locust bean, powd., bbls.....lb. .45 - —
Mastic, cs. .....lb. No prices
Myrrh, cs.....lb. .45 - .46
Olibanum, siftings, cs.....lb. .12 - .13
tears, cs.....lb. .22 - .38
Opium (see O).
Red (see Gum yacca).
Rosin (see R).
Sandarac, cks. .....lb. No prices
Scammony, cs.....lb. 1.50 - 1.55
Sterculia (see Gum, karaya).
Talha, bgs.....lb. .10 - .11
Tragacanth, No. 1, cs.....lb. 3.60 - 3.70
No. 2, cs.....lb. 3.20 - 3.25
No. 3, cs.....lb. 2.25 - 2.50
powdered, USP, bbls.....lb. 1.35 - 1.45
Yacca, bgs. .....lb. No prices

Gypsum, Keene's cement, paper bgs., c.l. Acme, Tex., frt. equald... ton. 29.65 - —
Harlem river, N. Y., frt. equald. ton. 28.25 - —
Medicine Lodge, Kans., frt. equald..ton. 17.00 - —
New Brighton, N. Y., frt. equald. ton. 30.65 - —
Southard, Okla., frt. equald. ton. 17.00 - —
Sweetwater, Tex., frt. equald... ton. 21.45 - —
Plaster of paris, paper bgs., c.l., Acme, Texas, frt. equald..ton. 12.50 - —
Blue Rapids, Kans., frt. equald. ton. 10.50 - —
Harlem river, N. Y., frt. equald. ton. 12.00 - —
Medicine Lodge, Kan., frt. equald..ton. 12.50 - —
New Brighton, N. Y., frt. equald. ton. 13.00 - —
Southard, Okla., frt. equald. ton. 12.50 - —
Sweetwater, Tex., frt. equald... ton. 12.50 - —
Stucco, paper bgs., c.l., Acme, Texas, frt. equald..ton. 8.00 - —
Akron, N. Y., frt. equald...ton. 8.00 - —
Blue Rapids, Kans., frt. equald. ton. 8.00 —
Clarence Center, N. Y., frt. equald..ton. 8.00 - —
Fort Dodge, Iowa, frt. equald. ton. 8.00 —
Grand Rapids, Mich., frt. equald..ton. 8.00 - —
Gypsum, Ohio, frt. equald.ton. 8.00 - —
Harlem river, N. Y., frt. equald. ton. 8.00 —
National City, Mich., frt. equald..ton. 8.00 - —
Gypsum, stucco, paper bgs., New Brighton, N. Y., frt. equald.ton. 8.00 - —
Plasterco, Ga., frt. equald.ton. 8.00 - —
Portsmouth, N. H., frt. equald. ton. 8.00 - —
Roton, Texas, frt. equald..ton. 8.00 - —
Saltville, Va., frt. equald..ton. 9.00 - —
Southard, Okla., frt. equald.ton. 8.00 - —
Sweetwater, Texas, frt. equald. ton. 8.00 - —
Saltville, Va., frt. equald...ton. 9.00 - —
Terra alba, paper bgs., c.l., Harlem river, N. Y.; works..ton. 22.50 - —
New Brighton, N. Y., works... ton. 21.00 - —

H

Hawthorn berries, bgs.....lb. .87 - .89
Heliotropin, cryst., cns.....lb. 2.95 - 4.00
Hellebore, white, powd., bbls.....lb. .70 - .71
Helonias root, bls.....lb. 2.20 - 2.25
Hematine extract, cryst., No. 0, bbls., l.c.l...lb. .44 - —
No. 1, bbls., l.c.l.....lb. .43 - —
No. 1A, bbls., l.c.l.....lb. .40 - —
No. 2, bbls., l.c.l.....lb. .39 - —
No. 3, bbls., l.c.l.....lb. .37 - —
No. 4, bbls., l.c.l.....lb. .35 - —
No. 5, bbls., l.c.l.....lb. .33 - —
paste, No. 1, bbls., l.c.l.....lb. .18½- —
No. 2, bbls., l.c.l.....lb. .17½- —
No. 3, bbls., l.c.l.....lb. .16½- —
No. 4, (red), bbls., l.c.l.....lb. .12 - —
Hemlock bark extract, 25% tannin, bbls., c.l., works..lb. No stocks
tanks, works.....lb. No stocks
Henbane leaves, bls.....lb. 1.00 - 1.25
Henna leaves, bls.....lb. .25 - .28
powd., bbls., bxs.....lb. .34 - .36
Heptane, industrial, 90°-100° C., dms., c.l., group 3..gal. .13½- .16
l.c.l., group 3.....gal. .19 - .35
tanks, group 3.....gal. .10¼- .10¾
77°-115° C., dms., c.l., group 3..gal. .13½- .17
l.c.l., group 3.....gal. .19 - .35
tanks, group 3.....gal. .10½- .11
laboratory, dms., c.l., group 3..gal. .16 - —
l.c.l., group 3.....gal. .29 - .55
Hexalin (see Cyclohexanol).
Hexaethyl tetraphosphate, cns., works, lb. 1.25 - —
dms., c.l., works.....lb. .80 - —
l.c.l., works.....lb. .90 - 1.00
Hexamethylene-tetramine, tech., bbls., 1,000-lb. lots, Perth Amboy or N.Y.C..lb. .28 - —
smaller lots, same basis.....lb. .29 - —
USP, dms., 500 lbs or more, same basis..lb. .35 - —
smaller lots, same basis.....lb. .36 - —
Hexane, industrial, 60°-70° C., dms. c.l., group 3..gal. .14¼- .17
l.c.l., group 3.....gal. .19 - .35
tanks, group 3.....gal. .11 - .12
laboratory, dms., c.l., group 3....gal. .16 - —
l.c.l., group 3.....gal. .29 - .55
Hexanol, normal, dms., l.c.l, works.lb. .25 - —
Homatropine hydrobromide, bots...oz. 15.00 -25.00
Hydrochloride, bots.....oz. 20.00 -22.00

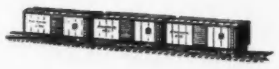
BASIC CHEMICALS

GENERAL CHEMICAL COMPANY

FOR AMERICAN AGRICULTURE

DDT

BHC



For Insecticide Manufacturers • Compounders • Mixers

DDT
Dichloro-diphenyl-trichloroethane

Technical—Ground or Flake
(39° Min. Setting Point)

50% DDT Wettable Powder, Micro-Fine
(Genitox* S50)

50% DDT Dust Base, Micro-Fine
(Genitox D50)

Emulsifiable Oil Concentrates
(Genitol† EM25 and EM30)

Solvent Concentrates
(Genitol SC30 and SC40)

BHC
Benzene Hexachloride

Technical Grade

Dust Base (Finely Milled)

Wettable Powder

Dust Mixtures

Oil Concentrates

†Trade Mark, General Chemical Company
*Reg. U. S. Pat. Off.

From General Chemical Company's extensive producing facilities are flowing a wide range of DDT and BHC products for manufacturing and compounding insecticides. These basic chemicals for the insecticide industry are readily available both as technical grade raw materials and in specialized formulations.

Into their manufacture has gone extensive investigational work, and all the skill and experience gained by General Chemical in nearly 50 years as a leading producer of insecticides.

Whatever your requirements—whether you are making a product for agricultural or household uses—you will find General Chemical Company can meet your needs. To be certain of your source of supply . . . contact General Chemical. Write or phone the nearest Sales and Technical Service Office below.

GENERAL CHEMICAL COMPANY
40 Rector Street, New York 6, N. Y.

Makers of the Nation's Foremost ORCHARD BRAND SPRAYS • DUSTS *Insecticides and Fungicides*

Sales and Technical Service Offices: Albany • Atlanta • Baltimore • Birmingham • Boston • Bridgeport Buffalo • Charlotte • Chicago • Cleveland • Denver • Detroit • Houston • Kansas City • Los Angeles Minneapolis • New York • Philadelphia • Pittsburgh • Portland (Ore.) • Providence • San Francisco Seattle • St. Louis • Wenatchee • Yakima (Wash.)
In Wisconsin: General Chemical Wisconsin Corporation, Milwaukee, Wis.
In Canada: The Nichols Chemical Company, Limited • Montreal • Toronto • Vancouver

Hoof Meal—Lime, Chemical

Hoofmeal, 17-18% ammonia bulk, c.l., Chicago..unit-ton. 8.50 - —
Hops, NF, bls.....lb. .85 - 1.80
Horehound, bls.....lb. .12 - .13
Hydrangea, root, bls.....lb. .22 - .25
Hydrastine, bots.....oz.20.00 -22.00
Sulphate, bots.....oz.29.00 -32.00
Hydrastinine, 10-grain bots.....bot. 1.95 - —
Hydrastis (see Goldenseal).
Hydrofuramide dms., fib cns., works, lb. .30 - .40
Hydrogen peroxide, USP, bbls.....lb. .03¾- .05
100 vols., cbys., E. of Miss. or West coast via Panama Canal..lb. .15½- 18½
Hydroquinone, bbls., dms.....lb. .90 - .94
Hydroxycitronellal, cns.....lb. 6.50 - 7.50
Hyoscine hydrobromide, bots.....oz.39.00 -45.00
Hyoscyamine, bots.....oz.18.00 -20.00
Hydrobromide, bots.....oz.18.00 -19.50
Sulphate, bots.....oz.14.00 -19.50
Hypernic extract, cryst. No. 1, bbls., l.c.l..lb. .91 - —
No. 2, bbls., l.c.l.....lb. .42 - —
liquid, No. 1, bbls., l.c.l.....lb. .28 - —
No. 2, bbls., l.c.l.....lb. .23 - —
solid, No. 1, bxs., l.c.l.....lb. .40 - —
Hyssop herb, bgs.....lb. .55 - .60
Leaves, bgs.....lb. .60 - .70

I

Iceland moss bgs.....lb. .50 - .52
Ichthammol, NF, bots.....lb. 2.45 - —
Indian red (see Red, Indian).
Indigo, nat., chests.....lb. 2.14 - 2.30
synth. paste, bots.....lb. .16½- .19
powd., bbls.....lb. .74½- .85
Indol, CP, bots.....lb.18.50 -23.00
Inositol, tins, works.....lb. 3.00 - —
Insect flowers (see Pyrethrum).
Iodine, crude, kgs., ex whse., Staten Island..lb. 1.720 - —
resubl., bots., jars.....lb. 2.35 - 2.65
Iodoform, dms., kgs.....lb. 4.45 - —
Ionone ketone, alpha, cns.....lb.12.30 -16.40
beta, cns.....lb.11.50 -12.80
pure, cns.....lb. 5.65 - 7.95
Methyl (see M).
IPC, bots., 1-5 lbs.....2.66 - 2.72
fib. dms., 100 lbs., ship. point.....lb. 2.30 - 2.80
50 lbs., ship. point.....lb. 2.40 - 2.52
10-25 lbs., ship. point.....lb. 2.50 - 2.54
Ipecac root, bgs.....lb. 5.25 - 5.30
powd., bgs.....lb. 5.45 - 5.50
Irish moss, bleached, prime, bls.....lb. .24 - .29
Iron acetate, liquor, 28°, bbls., c.l., works..lb. .09 - —
l.c.l., works.....lb. .09¾- —
solut., USP IX, cbys.....lb. .17 - —
djns.....lb. .18 - —
Chloride (ferric), anhydr., tech., dms., c.l., works..100 lbs. 4.90 - 5.25
l.c.l., works.....100 lbs. 6.50 - 6.85
cryst., tech., bbls., works, frt. alld, 100 lbs. 4.00 - 6.00
USP X, lump, bbls.....lb. .07 - .08½
solut., 42 Be, cbys., works, frt. alld, or equald..lb. .05½- .06
djns., same basis.....lb. .10 - —
Iron citrate, gran., dms.....lb. .77 - .79
Glycerophosphate, N.F., powd.....lb. 4.35 - —
Hypophosphite, bbls., dms.....lb. 1.50 - 1.52
Iodide, bots.....lb. 3.48 - 3.63
Naphthenate, 6% Fe, dms.....lb. .19½- —
Nitrate, red, tech., dms.....lb. .03½- .04
Iron oxalate, gran., dms.....lb. .33 - .35
powd., cns.....lb. .32 - —
kgs.....lb. .47 - .49
Phosphate, soluble, NF, gran., cs.lb. .54 - .57
Pyrophosphate, soluble, NF VII, gran., dms..lb. .59 - .62
Reduced, 90%, kgs.....lb. .65 - .75
Resinate, 7.4% Fe, dms.....lb. .22 - —
Stearate, dms., c.l.....lb. .46 - —
ton lots.....lb. .47 - —
less ton lots.....lb. .48 - —
Sulphate (ferric), anhyd., bgs., c.l., works..ton.36.00 - —
l.c.l., works.....ton.40.00 - —
partially hydrated, bgs., c.l., works..ton.26.50 - —
(ferrous), tech. (see Copperas).
USP, cryst., bbls., dms.....lb. .06 - .08
Iron-ammonium citrate, brown, green, gran., dms..lb. .45 - .48
Oxalate, bbls.....lb. .23½- —
dms., kgs.....lb. .25½- .26½
Iron-sodium oxalate, bbls., dms.....lb. .25½- .26½
Isobornyl acetate, cns.....lb. .97 - 1.10
Thiocyanoacetate, dms., c.l., works gal. 4.35 - —
l.c.l., works.....gal. 4.45 - 4.55
tanks, works.....gal. 4.23 - —
Isobutyl acetate, cns.....lb. .97 - 1.10
Methacrylate, M-5, dms., works..lb. .60 - —
cns., works.....lb. .63 - .67
P-3, cns., works.....lb. .60 - —
Propionate cns.....lb. No prices.
Isobutyraldehyde, dms., works.....lb. .33 - .36
Isoeugenol, extra, cns.....lb. 3.25 - 4.00
cbys., extra.....lb. 3.25 - —
Isopentane, dms., works.....lb. .45 - .55
Isophorone, dms., c.l., works.....lb. .21 - —
l.c.l., works.....lb. .22 - —
tanks, works.....lb. .20 - —
Isopropanol (see Alcohol, Isopropyl).
Isopropyl acetate, dms., c.l., frt. alld., E. of Rockies..lb. .1160- .1250
l.c.l., same basis.....lb. .1210- .1300
tanks, same basis.....lb. .1100- .1160
Alcohol (see Alcohol, Isopropyl).
Ether (see Ether, Isopropyl).
Phenylcarbamate (see IPC).
Isopropylamine, dms., works.....lb. .28 - —

J

Jaborandi leaves, bls.....lb. .24 - .28
Jalap root, NF, bls.....lb. .44 - .49
powd., bbls., bxs.....lb. .50 - .85
Resin, lump, cns.....lb. 5.85 - —
powd., bxs.....lb. 5.90 - —
Juniper berries, bgs.....lb. .12 - .20
Tar, USP, dms.....lb. .50 - .92

K

Kamala, powd., cns.....lb. .46 - .48
Kaolin (see China clay).
Kava kava root, bls.....lb. .35 - .40
Kerosene, at refinery; Ark., 42-44 w.w., tanks..gal. .0737½- —
Bayonne, 41-43, w.w., tanks....gal. .082 - —
California, 40-43, w.w., tanks..gal. .0830- .1005
Gulf ports, 41-43, w.w., tanks..gal. .0675- .0725
Okla.-Tex., 41-43, w.w., tanks..gal. .0712½- .0757½
Penn., 45 w.w., tanks.....gal. .0925- .0950
47 w.w., tanks.....gal. .0950- .0975
Kola nuts, bgs.....lb. .08 - .09
Kyanite, imp., low iron content, 10-mesh, whse..ton.85.00 -95.00
calcined, grain, 10-mesh, whse..ton.95.00 -105.00

L

Ladyslipper root, bls.....lb. 1.35 - 1.40
Lanolin, anhyd., cosmetic, dms., works, lb. .25 - —
USP, dms., works.....lb. .23 - —
hydrous, cosmetic, dms., works....lb. .23½- —
USP, dms., works.....lb. .21½- —
Lard, crude, trcs., Chicago.....lb. .24 - .25
Larkspur seed, bgs.....lb. .55 - .57
Laurel berries, bls.....lb. .25 - .26
Leaves, Algerian, bls.....lb. .13 - .13½
Cyprian, bls.....lb. .28 Nom.
Greek, bls.....lb. .11½- .12
Portuguese, choice, bls.....lb. .10½- .11
ordinary, bls.....lb. .09½- .10
Turkish, choice, bls.....lb. .17 - .17½
ordinary, bls.....lb. .10½- .11
Lavender flowers, medium, bls.....lb. .06 - —
ordinary, bls.....lb. .81 - —
select, bls.....lb. .75 - —
Lead acetate, white, broken, bbls..lb. .18½- —
cryst., bbls.....lb. .19¼- —
gran., powd., bbls.....lb. .19¼- —
Arsenate, basic, powder, 3-lb. bgs. or larger, c.l..lb. .21¾- —
l.c.l.....lb. .22¾- .23¾
1-lb. bgs., c.l.....lb. .29¼- —
l.c.l.....lb. .30¼- .31¼
Lead arsenate prices are works or whse. basis, frt. alld. on 96 lbs. or more to dest. East.
Blue, basic sulphate, bbls., c.l., ship't pt. frt. alld..lb. .15½- —
l.c.l., works.....lb. .15½- —
Carbonate (see Lead, White).
Chloride, fib. dms.....lb. .49 - —
Iodide, NF V, jars.....lb. 2.94 - —
Linoleate, solid, 13%, bbls.....lb. .41¾- —
Metal, pigs, prime, N. Y.....lb. .15 - —
E. St. Louis.....lb. .1480- .1485
Metallic paste, dms., 10,000-40,000 lbs., works..lb. .27½- —
2,000-10,000 lbs., same basis....lb. .28½- —
up to 2,000 lbs., same basis....lb. .30 - —
Naphthenate, 21% Pb, liquid, dms..lb. .20½- —
30% Pb, liquid, dms.....lb. .24¾- —
37% Pb, solid, dms.....lb. .27½- —
Nitrate, bbls., c.l.....lb. .17¾- —
l.c.l.....lb. .18 - —
Oleate, bbls.....lb. .26¾- —
Peroxide, powd., tech., bbls.....lb. .29 - .31
Red, 95% Pb_3O_4 or less, bbls., c.l., f.o.b. ship't point, frt. alld..lb. .1760- —
l.c.l., 5 tons, same basis.....lb. .1800- —
smaller lots, same basis....lb. .1850- .1860
in oil, kgs.....lb. .2675- —
97% Pb_3O_4, bbls., c.l., same basis..lb. .1785- —
l.c.l., 5 tons, same basis.....lb. .1825- —
smaller lots, same basis....lb. .1875- —
98% Pb_3O_4, bbls, c.l., same basis, lb. .1810- —
l.c.l., 5 tons, same basis....lb. .1850- —
smaller lots, same basis....lb. .1900- —
Resinate, precip., 28.8% Pb., dms, lb. 25 - —
Silicate, bgs.....lb. 17 - .17½
Soyate, 26.15% Pb., dms.....lb. .33¾- —
Stearate, bbls., c.l.....lb. .48 - —
ton lots.....lb. .49 - —
less ton lots.....lb. .50 - —
Sulphate (see Lead, blue; Lead, white, basic sulphate)
Tallate, 16% Pb, liquid, dms.....lb. .14 - —
36% Pb, solid, dms.....lb. .19 - —
White, basic carbonate, bbls., c.l., f.o.b. ship't point, frt. alld..lb. .15¾- .16
l.c.l., works.....lb. .16 - .16½
Basic sulphate, bbls., c.l., f.o.b. ship't point, frt. alld..lb. .15¼- —
l.c.l., works.....lb. .15½- —
Lecithin, edible, dms., c.l., works..lb. .31 - —
l.c.l., works.....lb. .32 - —
tech., dms., c.l., works.....lb. .31 - —
l.c.l., works.....lb. .32 - —
Lemon peel, bls.....lb. .35 - .40
Licorice extract, mass, cns.....lb. .40 - .42
powd., bbls.....lb. .60 - .62
Root, bls.....lb. .09 - .10
5-lb. bundles, cs.....lb. .60 - .65
powd., bbls.....lb. .14 - .15
Lignin extract, tanning grade, bgs., c.l., works..lb. .04¾- —
Lime, agricultural, bulk, works..tons. 9.00 - 9.50
Chemical (quicklime), lump, pebble, bulk, Adams, Mass.....ton 9.00 - —
Annville, Pa.....ton. 8.50 - —
Bellefont, Pa.....ton. 8.50 - —
Berkeley, W. Va.....ton. 8.50 - —
Buffalo, N. Y.....ton 10.25 - —
Carey, Ohio.....ton. 7.00 - —
Cedar Hollow, Pa.....ton 9.00 - —
Crab Orchard, Tenn.....ton. 8.50 - —
Eagle Mountain, Va.....ton. 8.50 - —
Farnams, Mass.....ton 9.00 - —
Gibsonburg, Ohio.....ton. 7.50 - —
Hannibal, Mo.....ton. 7.50 - —
Keystone, Ala.....ton. 8.50 - —
Knoxville, Tenn.....ton. 8.50 - —
Limedale, Ark.....ton. 8.00 - —
Longview, Ala.....ton. 8.50 - —
Mitchell, Ind.....ton. 7.50 - —
Newala, Ala.....ton. 8.50 - —
Manistique, Mich.....ton. 8.00 - —
Marblehead, Ohio.....ton. 8.50 - —
Martinsburg, W. Va.....ton. 8.50 - —
Menominee, Mich.....ton. 8.00 - —
Ripplemead, Va.....ton. 8.50 - —
Riverton, Va.....ton. 8.50 - —
Rockland, Maine.....ton. 8.00 - —
Scioto, Ohio.....ton. 6.50 - —
Sherwood, Tenn.....ton. 8.39 - —
Sherwood, Wis.....ton. 8.50 - —

CENTROL LECITHIN

The Modern Way

TO BETTER PAINTS AND PRINTING INKS

Production records of many leading paint, varnish, enamel and printing ink manufacturers proves that the addition of Centrol 4 Lecithin to their formulas results in:

Quicker Wetting of Pigments
Better Pigment Dispersion
Reduction in Grinding Time
Controlled Consistency

Centrol 4 Lecithin, a colloidal phosphatide compound, possesses exceptional wetting and dispersion properties in the manufacturing of paint, enamel, varnish, printing ink and putty. It also materially increases the penetrating qualities of wood preservatives and penetrating oils.

INCREASE YOUR PRODUCTION RATE

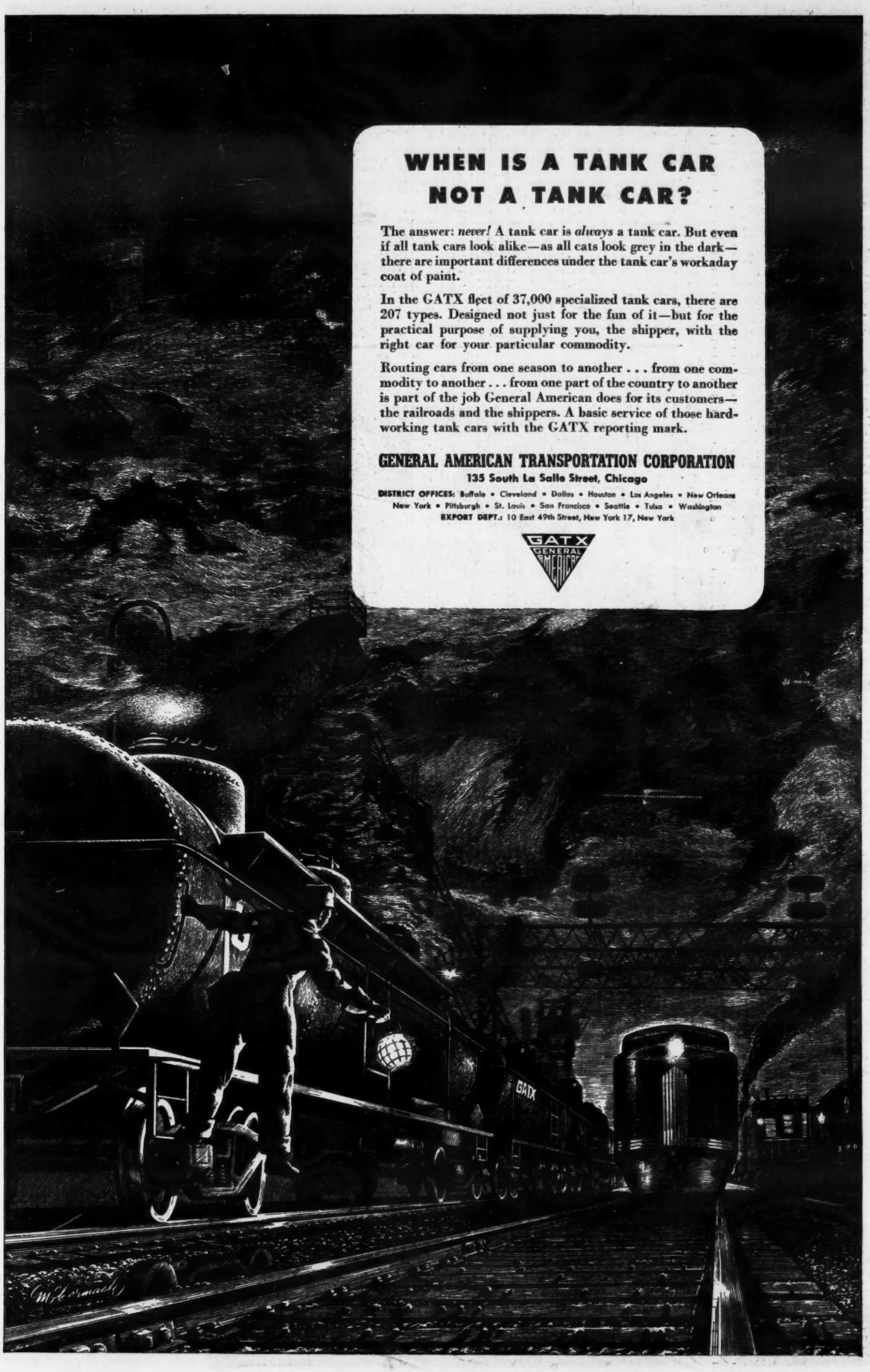
Centrol Lecithin increases the affinity of all hydrophilic pigments and many of the organophilic group for the vehicle, whether oil, alkyd, resins or varnish. It reduces surface and inter-facial tensions. As a result—grinding time is reduced to a minimum. Many users have increased their production rates as much as 40%.

In addition, Centrol Lecithin will improve the value of your surface coatings by eliminating or minimizing color floating or flooding and pigment settling. The brushing properties will be improved, with less sag or drag. Better leveling, spreading and pentration will be obtained.

Write today for the latest Technical Bulletins "Centrol 4 Lecithin for Protective Coatings and Printing Inks." Learn all the facts about how Centrol 4 Lecithin can improve your product.

Centrol Lecithin production is controlled by rigid standards and specifications to a uniform high quality, and is available in 25, 50, 125, 260 and 500 lb. steel pails and drums.

CENTRAL
SOYA PRODUCTS
CENTROL
LECITHIN
MANUFACTURERS OF
Central Lecithin, Central Soy Albumen, and Specialized Central Soy Flours
One of the World's Largest Soybean Processors
CENTRAL SOYA CO., INC., FORT WAYNE 2, IND.


WHEN IS A TANK CAR
NOT A TANK CAR?
The answer: never! A tank car is always a tank car. But even if all tank cars look alike—as all cats look grey in the dark—there are important differences under the tank car's workaday coat of paint.
In the GATX fleet of 37,000 specialized tank cars, there are 207 types. Designed not just for the fun of it—but for the practical purpose of supplying you, the shipper, with the right car for your particular commodity.
Routing cars from one season to another . . . from one commodity to another . . . from one part of the country to another is part of the job General American does for its customers—the railroads and the shippers. A basic service of those hard-working tank cars with the GATX reporting mark.
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GENERAL AMERICAN
GATX

Lime, Chemical—Methanol, Synthetic

Lime, chemical, Springfield, Mo...ton. 8.00 - —
Woodville, Ohio.....ton. 8.50 - —
York, Pa.....ton. 9.50 - —
hydrated, paper bgs., Adams, Mass..ton.11.25 - —
Annville, Pa.....ton.11.00 - —
Bellefonte, Pa.....ton.11.00 - —
Berkeley, W. Va.....ton.10.00 - —
Buffalo, N. Y.....ton.11.00 - —
Carey, Ohio.....ton. 8.50 - —
Cedar Hollow, Pa.....ton.11.00 - —
Crab Orchard, Tenn.....ton.11.65 - —
Eagle Mountain, Va.....ton.10.00 - —
Engle, W. Va.....ton.11.00 - —
Farnams, Mass.....ton.11.00 - —
Gibsonburg, Ohio.....ton. 9.50 - —
Hannibal, Mo.....ton. 9.50 - —
Keystone, Ala.....ton.11.65 - —
Knoxville, Tenn.....ton.11.00 - —
LeRoy, Minn.....ton.10.00 - —
Limedale, Ark.....ton.10.00 - —
Longview, Ala.....ton.11.65 - —
Marblehead, Ohio.....ton.10.50 - —
Mitchell, Ind.....ton.10.00 - —
Manistique, Mich.....ton. 9.50 - —
Newala, Ala.....ton.11.65 - —
Petoskey, Mich.....ton.10.00 - —
Port Island, Mich.....ton. 9.00 - —
Rapid City, S Dak.....ton.12.00 - —
Ripplemead, Va.....ton.10.00 - —
Rockland, Maine.....ton. 9.00 - —
Scioto, Ohio.....ton. 8.00 - —
Sherwood, Tenn.....ton.12.14 - —
Sherwood, Wis.....ton.10.00 - —
Springfield, Mo.....ton. 9.00 - —
Woodville, Ohio.....ton. 8.50 - —
York, Pa.....ton.11.00 - —
spray, paper bgs., Adams, Mass. ton.11.70 - —
Annville, Pa.....ton.11.00 - —
Bellefonte, Pa.....ton.11.00 - —
Carey, Ohio.....ton.11.00 - —
Engle, W. Va.....ton.11.00 - —
Farnams, Mass.....ton. 9.50 - —
Gibsonburg, Ohio.....ton.10.00 - —
Marblehead, Ohio.....ton.10.00 - —
Rockland, Me.....ton.10.00 - —
Scioto, Ohio.....ton.10.00 - —
Woodville, Ohio.....ton.10.00 - —
York, Pa.....ton.11.00 - —

Lime salts (see Calcium).
Lime-ammonia-nitrogen, 20.5% N (see Ammonium nitrate-limestone).
Limestone, grd., bulk, works.....ton. 1.40 - —
Linalool, ex bois de rose.....lb. 6.05 - 6.85
ex lignaloe wood.....lb. 6.50 - 7.00
Linalyl acetate, ex bois de rose, bots.lb. 5.75 - 7.60
ex lignaloe wood, bots.....lb. 8.25 - 8.40
ex petitgrain, bots.....lb. 5.10 - 6.35
Lycopodium, NF, cs.....lb. 2.50 - 2.75
without leaves, bls.....lb. 35 - 36
Linseed meal, 34% bulk, Midwest mills. ton.84.00 -85.00
Litharge, com'l, powd., bbls., c.l., f.o.b. ship't point, frt. alld..lb. .1660- —
l.c.l., 5 tons, same basis..lb. 17 - —
smaller lots, same basis.....lb. .1750- .1760
Lithium bromide, bbls., works, frt. equald..ton. 1.90 - —
Carbonate, NF, bbls., kgs.....lb. 1.15 - —
Chloride, jars.....lb. 1.15 - 1.65
Citrate, bbls., dms., kgs.....lb. 1.30 - 1.45
Fluoride, bbls.....lb. 1.90 - —
Hydroxide, jars.....lb. 1.15 - 1.25
Lithopone, ordinary, bgs., c.l., shipping point..lb. .06 - —
l.c.l., same basis.....lb. .06¾- —
bbls., c.l., same basis.....lb. .06¼- —
l.c.l., same basis.....lb. .06½- —
Titanated (high-strength), bgs., c.l. lb. .07¾- —
smaller lots.....lb. .08 - —
bbls., c.l.....lb. .08 - —
smaller lots.....lb. .08¼- —
Lithopone Pac. Cst. prices ¾c. higher.
Liverwort leaves, bls.....lb. .70 - .75
Lobelia herb, bls.....lb. 60 - 65
Lobeline sulphate, bots., works....oz.25 50 -38.00
Logwood extract, crystals, No. 1, bbls., l.c.l..lb. 37 - —
No. 2, bbls., l.c.l.....lb. 35 - —
liquid, No. 1, bbls., l.c.l.....lb. 18 - —
No. 2, bbls., l.c.l.....lb. 17 - —
No. 3, bbls., l.c.l.....lb. 16½- —
No. 4, bbls., l.c.l.....lb. 16 - —
solid, No. 1, bxs., l.c.l.....lb. .32 - —
No. 2, bxs., l.c.l.....lb. 30 - —
No. 4, bxs., l.c.l.....lb. 27½- —
No. 5, bxs., l.c.l.....lb. 25½- —
No. 6, bxs., l.c.l.....lb. 43½- 48¼
Lovage root, imp., bls.....lb 1.20 - 1.25
Lupulin, NF VII tin.....lb 10.00 -11.00
Lycopodium, NF, cs.....lb. 2.50 - 2.75

M

Mace, No. 1, Siauw, cs.....lb. 1.40 - 1.45
East Indian, bgs., futures.....lb. 1.40 - 1.45
West Indian, bgs., futures.....lb. 1.45 - 1.50
Broken, bgs., futures.....lb. 1.30 - 1.40
Madder, Dutch, bgs.....lb. 29 - .32
Magnesia, calcined, tech., bbls., works..lb. 29 - —
USP, bbls.....lb. .31 - 33
Magnesium arsenate, bgs., cans, works..lb. 20 - 30
Bromide, dms.....lb. .90 - 1.00
Carbonate, tech., bgs., c.l., frt. equald..lb. 07¼- —
l.c.l., frt., alld.....lb. .08¼- —
bbls., c.l., frt. equald.....lb. .08½- —
l.c.l., frt. alld.....lb. .09½- —
kgs., c.l., frt. equald.....lb. .09¾- —
l.c.l., frt. alld.....lb. .10¾- —
USP, bgs., c.l., frt. equald.....lb. .09 - —
l.c.l., frt. alld.....lb. .10 - —
bbls., c.l., frt. equald.....lb. .09½- —
l.c.l., frt. alld.....lb. .10½- —
kgs., c.l., frt. equald.....lb. .10¾- —
l.c.l., frt. alld.....lb. .11¾- —

Magnesium carbonate is quoted frt. alld. to N. J., except to Atlantic, Burlington, Cape May, Cumberland, Gloustershire, Ocean, and Salem counties, and to Phila. county, Pa. Frt. equald. with N. Y. C. on all other destinations.

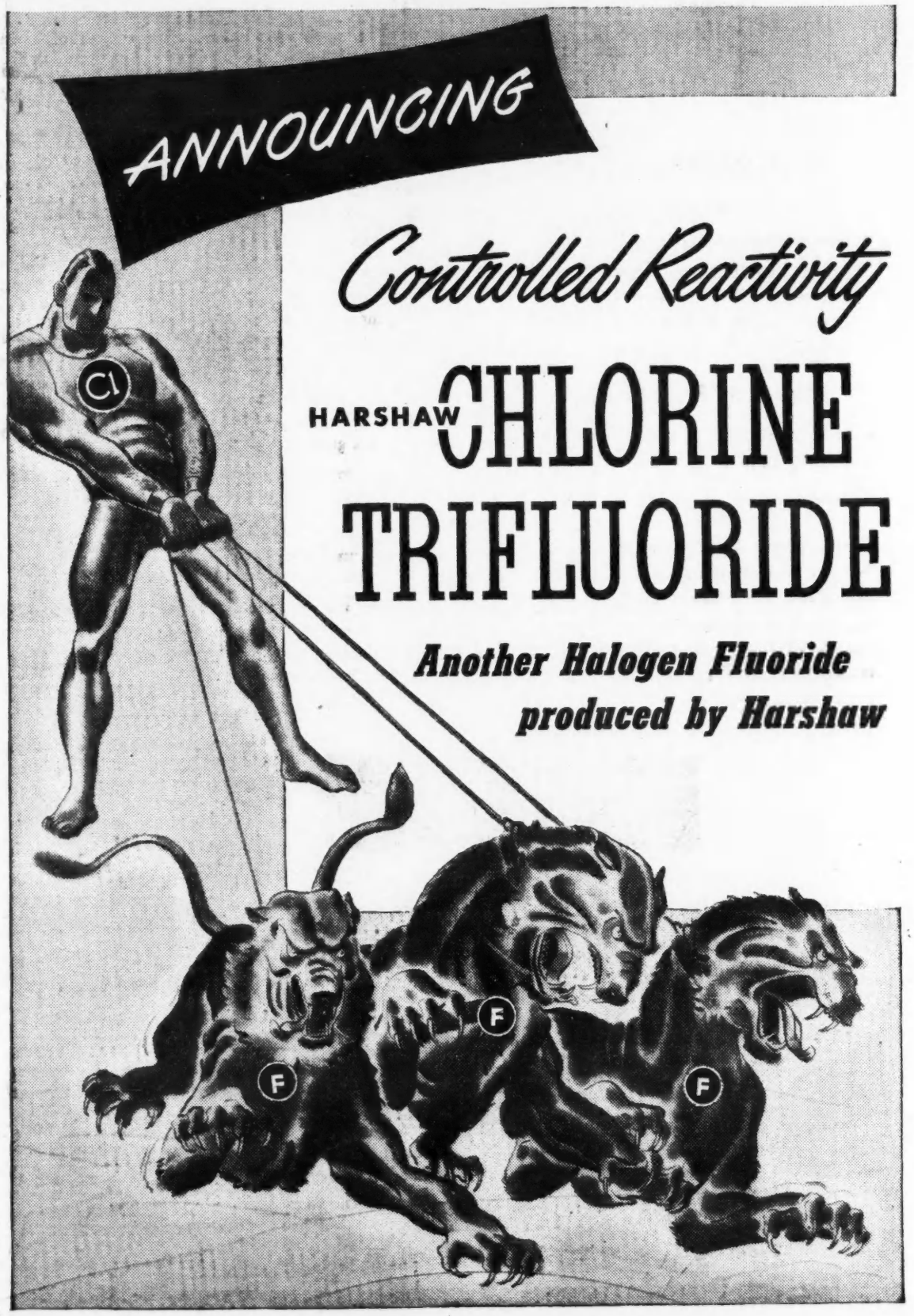
Chloride, anhyd., bbls., dlvd.....lb. .12¾- —
flake, bbls., c.l., works.....ton.37.00 - —
l.c.l., works.....ton.44.00 -46.00
Fluoride, bbls.....lb. .20 - .25
Hydroxide, medicinal, bbls., dms., kgs.....lb. .29 - .30
Hypophosphite, cns.....lb. 1.45 - —
Laurate, bbls.....lb. .46 - .47
Metal, 98.8%, ingots, cs.....lb. .20½- —
sticks, cs.....lb. .34 - .38
Oxide (see Magnesia, calcined).
Peroxide, 15%, dms., works.....lb. 1.00 - 1.05
Phosphate, tribasic, USP bbls.....lb. .62 - .67
Silicate (see Talc).
Silicofluoride, bbls.....lb. .14 - .16
Stearate, ctns., 2,000 lbs. to c.l. lb. .48 - —
smaller lots.....lb. .49 - —
Sulphate (see Epsom salt).
Trisilicate, dms., 1,000 lbs.....lb. .37 - —
smaller lots.....lb. .42 - —
Magnesite, calcined, powd., bgs., c.l., mines, Calif.....ton.60.00 - —
dead-burnt, bulk, c.l., Chewalah, Wash.ton.24.00 - —

Maleic anhydride, dms., c.l.....lb. .25 - —
l.c.l.....lb. .26 - —
Malva flowers, blacks, bls.....lb. No stocks
Blue, bls.....lb. 1.45 - 1.50
Leaves, bls.....lb. .40 - .41
Manaca root, bls.....lb. .49 - .50
Mandrake root, bls.....lb. .40 - .45
Manganese acetate, dms.....lb. .25½- —
Arsenate, bgs.....lb. .12 - .12¼
Borate, tech., bbls.....lb. .16 - .18
Carbonate, bbls.....lb. .19 - —
Chloride, anhyd., bbls., wks.....lb. .14 - .16
Dioxide, African, battery, 84%-87% bbls., 28-40 tons, works..ton.74.00 - —
smaller lots, works..ton.77.00 -82.00
burlap bgs., c.l., works, ton.71.75 - —
l.c.l., works.....ton.74.75 -79.75
paper bgs., c.l., works ton.70.00 - —
l.c.l., works.....ton.73.00 - —
85-90%, bbls., c.l., works..ton.74.00 - —
smaller lots, works.....ton.77.00 -82.00
Glycerophosphate, fib. dms.....lb. 4.25 - —
Hydrate, bbls., dlvd.....lb. .26 - —
Iodide, jars.....lb. 5.55 - —
Linoleate, liquid, 4% Mn, dms....lb. .41 - —
solid, precip., 8.2% Mn, bbls.....lb. .43 - —
Metal, cs., dlvd. East.....lb. .30 - .32
Naphthenate, liquid, 6% Mn, dms..lb. .21 - —
solid, 10% Mn, dms.....lb. .33¼- —
Resinate, fused, 3¼% Mn, bbls.....lb. .09 - .10½
precip., dms.....lb. .20 - —
Soyate, 8.2% Mn, dms.....lb. .22 - —
Sulphate, anhyd., dms., works....lb. No stocks
feed grade, 77-80%, bgs.....lb. .04 - .06
fertilizer grade, 66%, bgs., c.l., dlvd E..ton.56.00 - —

Manganese sulphate, fert. grade, l.c.l., dlvd. E. of Balto. or Cincinnati ton.63.00 - —
industrial grade, 80%, bgs..t.....lb. .05 - .05¾
75%, bgs., c.l., dlvd. East....ton.64.50 - —
l.c.l., same basis.....ton.71.50 - —
Tallate, liquid, 4% Mn, dms.....lb. No prices
solid, 8% Mn, dms.....lb. No prices
Mangrove bark, E. Africa, 38% tannin, c.l., ex dock..ton.60.00 -62.00
Manna, flake, large, cs.....lb. 1.50 - 1.55
small, cs.....lb. .70 - .75
Mannitol, com'l, bbls., works.....lb. .38 - .43
reagent, cs., works.....lb. .85 - —
Marjoram, Argentine, bls.....lb. .14 Nom.
Chilean, bls.....lb. .10½- .16¾
futures, bls.....lb. .10 - .10½
French, bls.....lb. .33 - .34
Matico leaves, bls.....lb. .17 - .18
Menadione, USP, bots., works...gram. .10 - —
Menthol, natural, USP, Brazilian, cns..lb. 8.75 - 9.00
synthetic, tech., cns.....lb. 6.00 - 6.40
USP, laevo, cns.....lb. 8.90 - —
racemic, cns.....lb. 7.00 - 8.00
Menthyl salicylate, tins.....lb. 3.00 - 3.10
Mercury bichloride (see Corrosive sublimate).
Bisulphate, dms.....lb. 2.33 - 2.35
Chloride (see Calomel).
Cyanide, cryst., powd.....lb. 3.54 - 3.59
Iodide, red, NF, dms.....lb. 4.32 - —
Yellow, NF, fib. dms.....lb. 4.42 - —
Metal (see Quicksilver).
Oxide, red, NF (see Red precipitate).
yellow, tech. (see Yellow, mercury oxide).
USP, fib. dms.....lb. 2.74 - 2.76
Mesityl oxide, dms., c.l., dlvd.....lb. .13 - —
l.c.l., dlvd.....lb. .13½- —
tanks, dlvd.....lb. .11½- —
Metachloranilin, dms., works.....lb. .65 - —

Metacresol, 98%, dms., works.....lb. .66 - —
Metanitroparatoluidin, bbls.....lb. 1.16 - 1.21
Metaphenylenediamine, kgs.....lb. .72 - —
Metatolylenediamine, kgs.....lb. .77 - —
Methanol, natural, all grades, group A, dms. extra, c.l., E. of Miss. gal. .63 - —
l.c.l., same basis.....gal. .73 - —
tanks, same basis.....gal. .60 - —
group B, dms. incl., c.l., frt. alld. gal. .67 - —
l.c.l., same basis.....gal. .78 - —
tanks, same basis.....gal. .60 - —
Prices on natural methanol W. of Miss. 3c. higher
synthetic, dms., c.l., zone 1, frt. alld. gal. .34½- —
2, frt. alld. or dlvd.....gal. .37½- —
3, frt. alld.....gal. .41½- —
4, frt. alld.....gal. .41½- —
l.c.l., zone 1, frt. alld. or dlvd.gal. .37 - —
2, frt. alld.....gal. .44 - —
3, dlvd. S. F. and L. A.....gal. .42 - —
4, frt. alld or dlvd.....gal. .52½- —
tanks, zone 1, frt. alld.....lb. .24 - —
2, frt. alld.....gal. .27 - —
3, frt. alld.....gal. .29 - —
4, frt. alld.....gal. .29 - —

Synthetic methanol zones are: Zone 1— Conn., Del., D. C., Ill., Ind., Ia., Ky., Me., Md., Mass., Mich., Minn., Mo., Neb., N. H., N. J., N. Y., N. C., O., Pa., R. I., S. C., Tenn., Vt., Va., W. Va., and Wis. Zone 2—Ala., Ark., Col., Fla., Ga., Kan., La., Miss., N. Mex., N. Dak., Okla., S. Dak., Tex., and Wyo. Zone 3—Los Angeles and San Francisco. Zone 4—Ariz., Calif. (with exception of Los Angeles and San Francisco), Ida., Mont., Nev., Ore., Utah and Wash. Buyers in zone 4 have the option of buying at the delivered zone 4 price or at the zone 3 price, f.o.b. Los Angeles and San Francisco.



Methyl abietate, non-ret. dms., c.l., dlvd..lb. .13¼- —
l.c.l., dlvd.....lb. .13¾- —
hydrogenated, non-ret, dms., c.l., dlvd..lb. .15½- —
l.c.l., dlvd.....lb. .16 - —
Acetate, CP, 97-99%, dms., c.l., E. of Miss...lb. .10½- .12
W. of Miss.....lb. .11½- .12
l.c.l., E. of Miss.....lb. .11 - .14
W. of Miss.....lb. .12 - .13½
tanks, E. of Miss.....lb. .09½- —
W. of Miss.....lb. .10½- —
tech., dms., c.l., E. of Miss.....lb. .07 - .09
W. of Miss.....lb. .08 - —
l.c.l., E. of Miss.....lb. .07½- .11
W. of Miss.....lb. .08½- .10½
tanks, E. of Miss.....lb. .06 - —
W. of Miss.....lb. .07 - —
Acetoacetate, dms., c.l., frt.alld. E lb. .42 - —
l.c.l., same basis.....lb. .42½- —
Methyl acetoacetate prices, frt. alld. W., ½c. higher.
Acetone, natural, group A, dms., extra, c.l., E. of Miss., frt. alld..gal. .50 - —
l.c.l., same basis.....gal. .57 - —
Natural methyl acetone group A prices W. of Miss. 3c. per gal higher.
group B, dms., incl., c.l., E. Miss., frt. alld..gal. .67 - —
l.c.l., same basis.....gal. .78 - —
tanks, same basis.....gal. .60 - —
synthetic, dms., c.l. works, frt, alld E..gal. .53¾- —
frt. alld. W.....gal. .56½- —
l.c.l., works, frt. alld. E...gal. .57 - —
frt. alld. W.....gal. .59 - —

Methyl acetone, synthetic, tanks, works, frt. alld. E..gal. .44¾- —
frt. alld. W.....gal. .46½- —
Methyl acetone, synth. East territory is all States East of and including Colo., Mont., N. Mex. and Wyo. West territory, all States West of those four.
Alcohol (see Methanol).
Anthranilate, dms.....lb. 2.20 - 2.30
bots., cns.....lb. 2.50 - 2.60
Benzoate, cns.....lb. .45 - 1.20
Bromide, cns.....lb. .63 - .65
cyls.....lb. .55 - .70
Chloride, indust., cyl., works...lb. .16 - —
tanks, multi-unit, works.....lb. .14¾- —
single-unit, works.....lb. .14 - —
refrigeration, indust. consumers, refrigeration machinery mfrs., cyls., dlvd..lb. .33 - —
retail refrigeration consumers or service men, cyls., dlvd..lb. .41 - —
Cinnamate, cns.....lb. 1.43 - 3.50
Formate, dms.....lb. .89 - —
Iodide, bots.....lb. 3.00 - 3.25
Lactate, dms., l.c.l., works.....lb. .35 - —
Methacrylate, M-1, dms., works..lb. .45 - —
cns., works.....lb. .48 - .58
P-1, cns., works.....lb. .60 - —
Salicylate, dms., 500 lbs.....lb. .40 - —
25-50 lbs.....lb. .45 - —
Methylamyl ketone, cns., dms., works, lb. No stocks
Methylcellulose, special vis. (4,000 cps.), fib. ctns., 2,000 lbs. or more, frt. alld..lb. .70 - —
smaller lots, frt. alld. on 100 lbs. lb. .75 - .80

Methylcellulose, standard vis. (15-1,500 cps.), fib. ctns., 2,000 lbs. or more..lb. .63 - —
smaller lots, frt. alld. on 100 lbs. lb. .68 - .73
Methylcyclohexane, 98-100%, dms., works..lb. .16 - —
Methylcyclohexanol, 98-100%, dms., works..lb. .23 - —
Methylcyclohexanone, 98-100%, dms., works..lb. No stocks
Methylene blue, tech. (see Dyes, coal-tar).
USP, 100-lb. lots, kgs., frt. equald. lb. 2.20 - —
50-lb. lots, kgs., same basis..lb. 2.30 - —
25-lb. lots, kgs., same basis..lb 2.35 - —
Chloride, indust., dms., c.l., dlvd. E. lb. .12½- —
l.c.l., dlvd., E.....lb. .13½- —
tanks, dlvd., E.....lb. .11½- —
Methyleneanilin, dms., ton lots, frt. alld..lb. .36 - —
smaller lots, same basis.....lb. .37 - —
Methylethyl ketone, dms., dlvd....lb. 10½- —
l.c.l., dlvd.....lb. .11 - —
tanks, dlvd.....lb. .09 - —
Methylhexyl ketone, tech., dms., works..lb. .60 - —
Methylionone, A, cns.....lb. 6.55 - 8.80
D, cns.....lb. 7.50 - 9.55
prime, cns.....lb. 4.55 - 6.40
Methylisobutyl carbinol (see Carbinol, methylisobutyl).
Ketone, dms., c.l., dlvd.....lb. .14 - —
l.c.l., dlvd.....lb. .14½- —
tanks, dlvd.....lb. .12½- —

Methylnaphthyl ketone, cns.....lb. 3.00 - 3.75
Methylpentanediol, dms., works, dlvd. lb. .18 - —
l.c.l., works, dlvd.....lb. .19 - —
tanks, works, dlvd.....lb. .16½- —
Mica, dry-grd., paint, plastic, 100 mesh, bgs., c.l., works.....lb. .63½- —
roofing, 20 to 80 mesh, works...lb. .60 - —
wet-grd., biotite, bgs., c.l., works, frt. alld. E..lb. .05¼- —
l.c.l., ex whse. or frt. alld. E. lb. .05¾- —
extra fine, bgs., c.l., works, frt. alld. E..lb. .06 - —
l.c.l., ex whse. or frt. alld. E. lb. .06½- —
paint or lacq., bgs., c.l., works, frt. alld. E..lb. .06½- —
l.c.l., ex whse. or frt. alld. E. lb. .07 - —
rubber, bgs., c.l., works, frt. alld. E..lb. .06¼- —
l.c.l., ex whse. or frt. alld. E. lb. .06¾- —
wallpaper, bgs., c.l., works, frt. alld. E..lb. .06½- —
l.c.l., ex whse. or frt. alld. E. lb. .07 - —
white, extra fine, bgs., c.l., works, frt. alld. E..lb. .06¾- —
l.c.l., ex whse. or frt. alld. E. lb. .07¼- —
mica, wet-grd., W. of Miss. R., ½c. higher. W. of Rockies, ¾c. higher.
Milk powder, skimmed, roller, bbls., c.l..lb. .11¼- .12½
spray, bbls., c.l.....lb. .12¼- .12¾
Whole, roller, bbls., c.l.....lb. .39 - .39¾
spray, bbls., c.l.....lb. .38½- .43¼
Sugar, bbls., c.l., works.....lb. .26 - —
l.c.l., works.....lb. .26¾- .27¼
Mineral spirits (see Petroleum, mineral spirits).
Molasses, blackstrap, tanks, U. S. ports..gal. .24½- .25
Molybdate orange (see Orange, molybdate).
Molybdenum metal, 99% Mo. powd., kgs..lb. 2.60 - 3.00
Trioxide, pure, kgs., works, basis Mo. content..lb. .95 - —
technical, kgs., works, basis Mo. content..lb. .80 - —
Monoamylamine, dms., c.l., works, basis 100%..lb. .61 - —
l.c.l., same basis.....lb. .64 - —
Monochlorobenzene, dms., c.l., works, frt. equald..lb. .06 - .07½
l.c.l., works.....lb. .06½- .08½
smaller containers, works.....lb. .09 - .10
tanks, works, frt. equald.....lb. .05½- .06
Monoethanolamine, dms., c.l., frt a lt E .lb. .25½- —
l.c.l., same basis.....lb. .26½- —
smaller containers, same basis....lb. .29½- —
tanks, same basis.....lb. .24 - —
Monoethylamine, dms., c.l., wks. basis 100%..lb. .17 - —
l.c.l., same basis.....lb. .18 - —
tanks, same basis.....lb. .15 - —
Monomethylamine, anhydrous, cyl., works, basis 100%..lb. .34½- .44½
25%-40%, dms., c.l., same basis..lb. .34 - —
tanks, same basis.....lb. .30 - —
Monomethylpara-aminophenol sulphate, dms..lb. 2.40 - 2.90
Monononylnaphthalene, tanks, wks..lb. .16 - —
Monosodium glutamate (see Sodium glutamate, monobasic).
Phosphate (see Sodium prosphate, monobasic).
Morphine, bots., 5 ozs.....oz. 11.10 - —
cns., 25 ozs.....oz. 10.90 - —
Acetate, bots., 5 ozs.....oz. 9.00 - —
cns., 25 ozs.....oz. 8.80 - —
Hydrobromide, 5 ozs.....oz. 8.95 - —
cns., 25 ozs.....oz. 8.70 - —
Hydrochloride, bots., 5 ozs.....oz. 9.00 - —
cns., 25 ozs.....oz. 8.75 - —
Sulphate, bots., 5 ozs.....oz. 9.00 - —
cns., 25 ozs.....oz. 8.75 - —
Morpholine, dms., l.c.l., works....lb. .67 - —
smaller containers, works.....lb. .75 - —
Mountain ash berries, bgs.....lb. .75 - .76
Mullein leaves, bls.....lb. .12 - .13
Musk, nat., Tonquin, grains, bots..oz. 38.00 -52.00
synthetic, ambrette, cns..... 8.00 -14.25
Ketone, cns., 100 lbs. or more..lb. 4.50 - 4.95
25 lbs.....lb. 4.70 - 5.05
5 lbs.....lb. 4.60 - 5.20
Xylol, cns.....lb. 1.60 - 1.90
25 lbs.....lb. 1.70 - 1.90
5 lbs.....lb. 1.80 - 2.00
Muskroot, bls.....lb. No stocks
Mustard seed, Calif., brown, bgs..lb. .22½- .23
yellow, bgs.....lb. .23 Nom.
Danish, yellow, bgs.....lb. .19 - .19½
Dutch, yellow, bgs.....lb. .18 - .18½
futures, bgs.....lb. .18½- .19
Montana, brown, bgs.....lb. .15 - .15½
new crop futures, source....lb. .12 - .12½
oriental, bgs.....lb. .08½- .09
new crop futures, source....lb. .07½- .08
yellow, bgs.....lb. .18 - .18½
new crop futures, source....lb. .17 - .17½
Washington, yellow, bgs.....lb. No prices
Myrobalans, J1, good quality, ex dock. ton. 54.00 -55.00
J2, ex dock.....ton. 45.00 -46.00

N

Naphtha, painters (see Petroleum naphtha, V. M. & P.).
Solvent (see Si).
Naphthalene, dom., crude, 74° bgs., bbls., c.l., frt. equald..lb. No prices
tanks, same basis.....lb. .035 - .0475
78°, bgs., c.l., same basis.....lb. No prices
bbls., c.l., same basis.....lb. .0410- .055
l.c.l., same basis.....lb. .0435- .06
tanks, same basis.....lb. .0375 - .05
refined, balls, flakes, bbls., wholesalers and jobbers, c.l., works, lb. .11 - —
50-lb. cs., c.l., same basis....lb. .11½- —
1-lb. pkgs., c.l., same basis..lb. .12½- —
Neocinchophen, USP, dms., works..lb. 7.00 - 7.10
Nepheline syenite, glass, 24 mesh, bulk, Rochester, N. Y.....ton. 13.75 - —
pottery, 200 mesh, bulk, Rochester, N. Y..ton. 17.25 - —
Nepheline syenite in bgs., $3 per ton higher than bulk.
Nerolin, crys., cns.....lb. 1.70 - 2.00
Niacin (see Acid, nicotinic).
Nickel, carbonate, bbls.....lb. .30 - —
Chloride, bbls.....lb. .20 - —
Cyanide, bots., dms.....lb. 1.75 - 2.00
Metal, electro cathodes, cs.....lb. .33½- —
Oxide, black, bbls.....lb. .35 - .38
Salt, bbls.....lb. .14 - .14½
Nicotinamide, USP, dms., works..kilo. 9.50 - 9.80
Nicotine sulphate, 40%, dms., dealers, frt. allowed over 50 lbs..lb. .988 - —
tins, dealers.....lb. 1.105 - —
Nikethamide, bots, cbys.....lb. 5.50 - 6.00
Nitercake, bulk, works.....ton. 20.00 -24.00
Nitrobenzene, dbl. dist., dms., c.l..lb. .08½- .08¾
l.c.l.....lb. .09½- .10
tanks.....lb. .07½- .07¾

Chemical Properties

1. Converts CoF_2 to CoF_3
2. Converts AgCl or AgF to AgF_2
3. Reacts vigorously with water, organic materials, hydrogen, sulfur dioxide and a vast number of other elements and compounds.

Physical Properties

1. Boiling point . . . . . 11.3°C
2. Freezing point . . . . . −83°C
3. Density . . . . . 1.8 g/ml

CHLORINE TRIFLUORIDE, perhaps the most reactive chemical compound ever made, is the latest addition to the Harshaw Fluoride Line, and takes its place beside Bromine Trifluoride as another Halogen Fluoride made available to industry by Harshaw.

"That stuff is just fluorine which has been tricked into staying liquid," commented a visiting chemist after reviewing our accumulated information on Chlorine Trifluoride.

Chlorine Trifluoride does show so many of the reactions of fluorine, such as those listed above, that often it is a very acceptable alternate to the element itself. It constitutes a very valuable supplement to the fluorine cells in laboratories and pilot plants conducting investigations in fluorine chemistry. It is a great aid in the elimination of delays imposed on experimental schedules by limited fluorine generation capacity.

The use of Chlorine Trifluoride is so simple—just a cylinder containing a volatile liquid gives you the reactivity of fluorine held under perfect control. Where the reactive properties of fluorine in a very slightly modified form are desired, Chlorine Trifluoride is the answer.

THE HARSHAW CHEMICAL CO.
1945 East 97th Street, Cleveland 6, Ohio
BRANCHES IN PRINCIPAL CITIES

Other Harshaw Fluorinating Agents

Antimony Trifluoride
Anhydrous
Argentic Fluoride
Argentous Fluoride
Bromine Trifluoride
Cobaltic Fluoride
Hydrogen Fluoride
Anhydrous
Manganic Fluoride
Mercuric Fluoride
Potassium Fluoride
Anhydrous

Laboratory and Commercial Fluorine Cells

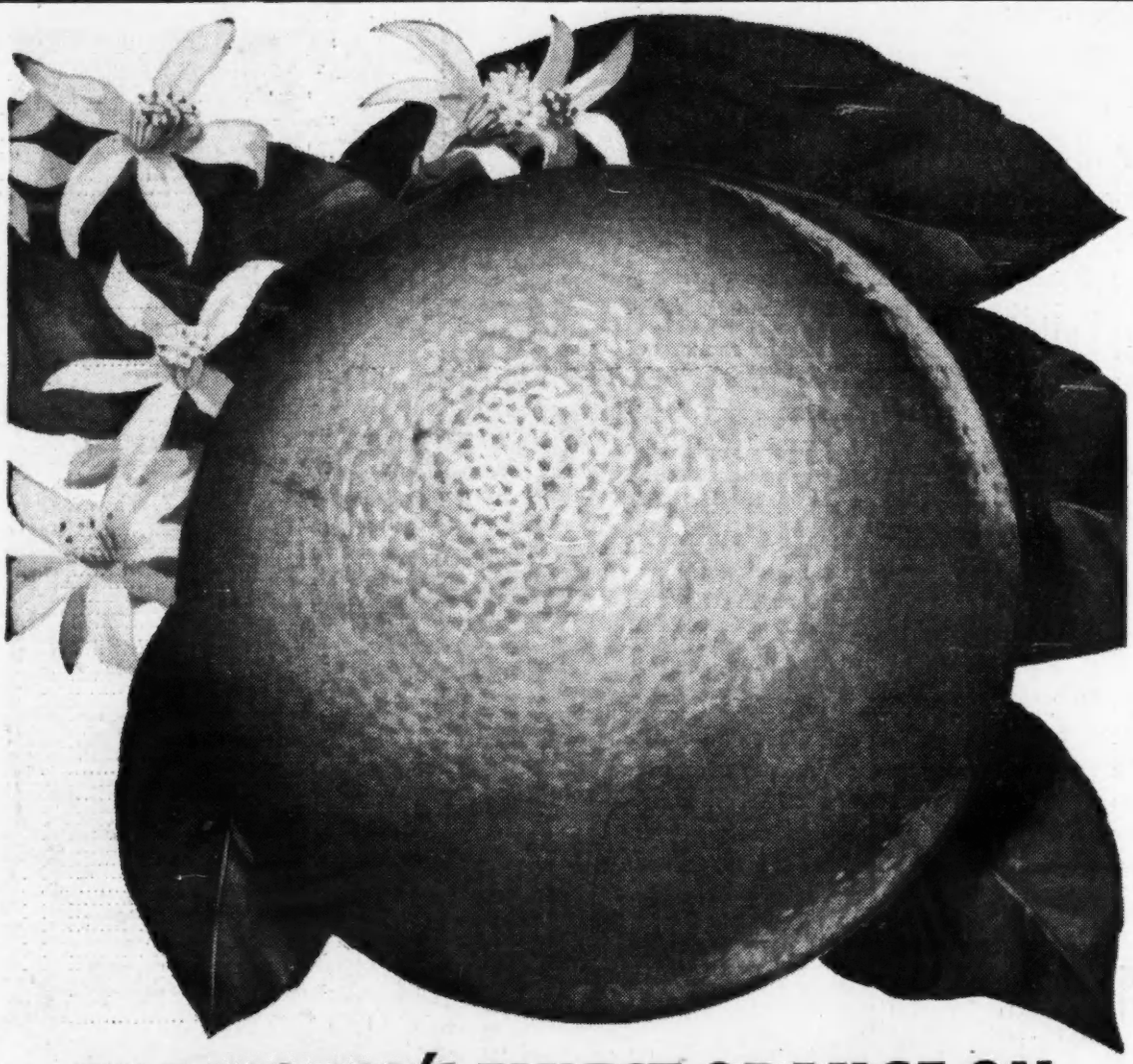
Nitrocellulose, Ester-soluble—Oil, Patchouli

Nitrocellulose, ester-soluble, 20-35 cps., ¼, ½, 5-6, 15-20, 30-40, and 60-80 secs., bbls., c.l., works, dry weight..lb. .26 - —
l.c.l., same basis.....lb. .27 - .29
18-25 cps., 125-175 secs., c.l., same basis..lb. .28 - —
l.c.l., same basis.....lb. .29 - .31
250-400 secs. and 600-1,000 secs., c.l., same basis..lb. .31 - —
l.c.l., same basis..... ....lb. .32 - .34
spirit-soluble, 30-35 cps., ¼, ½, 5-6 and 40-60 secs., c.l., same basis..lb. .32 - —
l.c.l., same basis.....lb. .33 - .35
Denatured alcohol used in the manufacture of nitrocellulose is charged extra. Barrels extra, but returnable.

Nitrogen solution, tanks, works, N.ton.107.00 -114.84
Nitrogenous process tankage, bulk, works, ammo. unit ton. 4.60 - 6.50
Sewage sludge, bulk, works, unit ton.4.15 + 40- —
Nitromethane, dms., c.l., works....lb. .25 - —
Nitronaphthalene, bots.....lb. .24 - .25
Nitropropane, 1, dms., works.....lb. .25 - —
2, dms., works.....lb. .25 - —
Nonylnaphthalene blend (mono and di), tanks, works..lb. .14 - —
Nutgalls, bgs .....lb. .44 - .50
Nutmegs, East Indian, bgs., futures, afloat..lb. .50 - .51
West Indian, bgs.....lb. .51 - .51½
futures .....lb. .51 - .51½
Nux vomica, bls.....lb. .09 - .10
powdered, bbls., bxs.....lb. .12 - .13

O

Oakbark extract, 25% tannin, bbls., c.l., works..lb. No stocks
Octane, 100°-140° C, industrial grade, dms., c.l., group 3..gal. .16 - —
l.c.l. .....gal. .20 - .85
tanks, group 3.....gal. .13 - —
Octanol (see Alcohol, ethylhexyl).
Oil, almond, bitter, artificial (see Benzaldehyde).
natural, F.P.A., bots.....lb. 4.50 - 5.00
NF, bots.....lb. 4.90 - —
Sweet, dms., cns.....lb. .69 - 1.30
Angelica root, bots.....lb.120.00 -250.00
Seed, bots.....lb.120.00 -200.00
Anilin (see A).
Anise, USP, Chinese, dms.....lb. .65 - 1.00
Russian, cns. .....lb. 3.25 - 3.75
Apricot kernel, cns.....lb. .65 - .85
Avocado, cns., dms.....lb. 1.00 - 1.10
Babassu, tanks.....lb. .14½- —
Bay, NF, Puerto Rican, 50-55%, cns. .....lb. 1.60 - 2.25
55-60%, cns.....lb. 1.35 - 2.35
60-65%, cns.....lb. 2.80 - —
West Indian, 50-55%, cns.....lb. 1.20 - 1.65
Bergamot, artif., cns.....lb. 3.50 - 4.25
natural, Italian, cns.....lb. 4.40 - 5.50
Birch (see Oil, sweet birch).
Birchtar, crude, cns.....lb. .95 - 1.70
rectified, cns .....lb. No stocks
Bois de rose, Brazil, cns.....lb. 3.40 - 3.50
Mexican (see Oil, lignaloe wood).
Bone, dms., works..... gal. .65 - .70
Cajeput, tech., dms.....lb. 2.50 - 2.90
redistilled, USP IX, cns.....lb. 2.50 - 3.40
Calamus, cns. .....lb.20.00 -28.00
Camphor, natural, white, cns.....lb. .20 - .75
synthetic, dms. .....lb. .15 - .35
Oil, cananga, natural, cns.....lb. 6.00 - 9.10
rectified, cns. .....lb. 9.35 -12.60
Capsicum (see Capsicum oleoresin).
Caraway, NF, cns.....lb. 5.60 - 6.50
Cardamom, bots. .....lb.20.00 -31.50
Cassia, USP, cns.....lb. 2.75 - 3.75
Castor, blown, ret. dms., c.l.....lb. .30 - .30½
l.c.l. .....lb. .31 - .31½
cold-pressed, USP, ret. dms., c.l. .....lb. .28¼- —
l.c.l. .....lb. .29¼- —
tanks .....lb. .27¼- —
dehydrated, bodied, dms., c.l.....lb. .30¾- —
l.c.l. .....lb. .31½- —
tanks .....lb. 30 - —
unbodied, dms., c.l.....lb. .29¾- —
l.c.l. .....lb. .30½- —
tanks .....lb. 29 - —
No. 3, tech., dms., c.l.....lb. .27½- —
l.c.l. .....lb. .28¼- —
tanks .....lb. .26½- —
sulphonated, 50% (48% fat), dms. .....lb. .16¼- .17⅛
75% (60-62% fat), dms.....lb. .28 - .28½
Cedarleaf, USP, cns., dms.....lb. 2.25 - 2.85
Cedarwood, cns.....lb. .70 - .95
dms. .....lb. .70 - .85
Celeryseed, bots. .....lb.15.00 -20.00
Chaulmoogra, NF, cns., dms.....lb. 55 - —
Chinawood (see Oil, tung)
Cinnamon bark, bots.....lb.52.50 -62.00
Leaf, dms. .....lb. 1.85 - —
Citronella, Ceylon, cns.....lb. 1.00 - 2.75
Java, cns. .....lb. 1.50 - 4.75
Clove, USP, cns.....lb. 1.35 - 1.70
Coconut, crude, tanks, Atlantic ports..lb. .20 Nom.
Pac. coast.....lb. .19 Nom.
refined, Cochin type, tax incl., ret. dms., c.l..lb. .22½ Nom.
deodorized, tax incl., ret. dms., l.c.l..lb. .25¾ Nom.
Oil, cod, Newfoundland, dms.....lb. .20 - .22
Codliver, USP, bbls., dms.....gal 2.40 - 2.50
Coriander, bots.....lb.23.50 -28.00
Corn, crude, tanks, works.....lb. .24 - .24½
foots, acid, 95%, tanks, dlvd. E. .....lb. .06¾ Nom.
raw, 50%, tanks, dlvd. 1....lb. .03½ Nom.
refined, tanks, works.....lb. .27½ Nom.
Cottonseed, crude, tanks, works...lb. .24 - —
foots, acid 95%, tanks, dlvd. E. .....lb. .06½Nom.
raw, 50%, tanks, dlvd. E....lb. .03½ Nom.
deodorized, winterized, salad, dms., c.l..lb. .28 Nom.
l.c.l. .....lb. .29 Nom.
tankcars .....lb. .27 Nom.
Creosote (see C).
Croton, NF, cns.....lb. 4.75 - 5.50
Cubeb, USP, cns. .....lb. 7.50 -10.00
Crude (see Petroleum, crude).
Cumin, bots. .....lb. 6.25 -11.50
Cypress, bots. .....lb.11.00 -15.00
Degras (see D).
Dillseed, bots. .....lb. 4.25 - 7.00
Dillweed, bots., 25-lb. lots.....lb. 5.00 - 6.00
Dip (see D)
Erigeron, USP, cns.....lb. 2.30 Nom.
Eucalyptus, rect., USP, 80-90%, cns., ...lb. 1.05 - 1.45
70-80%, cns. .....lb. .95 - 1.30
Fennel, sweet, cns.....lb. 3.05 - 4.55
Fir, Canada, cns. .....lb. 2.25 - 2.75
Fishliver, 8,000-15,000 A units per gram, dms., per million units. .16 - .17
15,000-30,000 units, dms., per million units. .17 - .18
30,000-60,000 units, dms., per million units. .19 - .20
60,000-100,000 units, dms., per million units. .25 - .26
over 100,000 units, dms., per million units. 27½- .28⅛
concentrates 200,000 or more A units per gram, dms..per million units. .34 - .38
Fuel (see Petroleum, fuel oil).
Garlic, pure, bots.....oz.15.00 - —
Gaultheria (see Oil, wintergreen).
Geranium, Algerian, cns.....lb.16.50 -21.00
Bourbon, cns.....lb.10.50 -14.50
Russian, cns.....lb. No stocks
Turkish (see Oil, palmarosa).
Ginger, dist., bots.....lb. 8.00 -13.00
Grapefruit, Florida, cns.....lb. 2.25 - 2.50
California, bots., cns.....lb. 1.70 - 2.00
Grease, common, No. 1, dms., c.l., Chicago..lb. .20½- —
extra, winter strained, dms., c.l., Chicago..lb. .27½- —
prime, burning, dms., c.l., Chicago .....lb. .28½- —
Guaiacwood, cns. .....lb. 2.35 - 4.15
Hemlock, cns. .....lb. 2.25 - 2.75
Herring, crude, tanks, Pac. coast..lb. No prices
Juniper berry, dom., bots.....lb. 6.00 -12.50
imported, USP.....lb. 7.50 -12.00
Tar, USP (see Juniper tar).
Wood, tech., cns.....lb. .65 - 1.00
Lard (see Oil, grease).
Laurel, bots.....lb.20.00 Nom.
Lavandin, cns.....lb. 1.80 - 3.75
Lavender flower, French, 38-42% ester..lb. 7.00 -16.15
30-32% ester.....lb. 4.80 - 8.00
Russian, 25-lb. .....lb.11.75 - —
Spike, Spanish, pure, cns.....lb. 1.50 - 2.25
tech., cns. .....lb. 1.75 - 2.78
Lemon, natural, USP, Calif., cns..lb. 3.25 - 3.60
Messina, cns.....lb. 3.65 - 3.85
terpeneless, bots.....lb. 49.00 -50.00
Lemongrass, cns., dms.....lb. 1.30 - 2.30
Lignaloe seed, Mexican, cns.....lb. 4.50 - 4.80
Wood, Brazilian (see Oil, bois de rose).
Mexican, cns .....lb. 3.50 - 5.20
Lime, distilled, Mexican, cns.....lb. 4.00 - 5.15
West Indian, cns.....lb. 4.85 - 6.30
expressed, West Indian, cns.....lb. 9.50 -10.00
terpeneless, bots.....lb.35.00 -40.00
Linseed, raw, dms., c.l.....lb. .31 10- —
l.c.l. .....lb. .31 0- .3230
tankcars .....lb. .30 10- —
tankwagon .....lb. .30 30- —
Boiled linseed oil .007 higher than raw.
Linseed replacement, dms., c.l..lb. .25 Nom.
l.c.l. .....lb. .26 Nom.
tanks .....lb. .24 Nom.
Lubricating, at refinery, ex tax, Group 3, bright stock, 150-160 vis., 10-25 p.p., tanks..gal. .28 - —
neutral, 300 vis., No. 3, col., 0.10 pour, tanks..gal. .21 - .22
200 vis., No. 3, col., 15-25 pour, tanks..gal. .18 - .19
145-155 vis., No. 3, color, 10-25 pour, tanks..gal. .28 - —
Penna., W., cylinder, 600-680 flash, tanks..gal. .33 - .38
600-650 steam refd., tanks, gal. .37 - —
neutral, 70° F. No. 3, color, 150 vis., 25 pour, tanks..gal. .37 - .39
200 vis., 25 pour, tanks.gal. .39 - .41
South Texas, neutral, pale, 200 vis., 2½-4 pour, tanks..gal. .11 - .12
red, 200 vis., 4-6½ pour, tanks..gal. .11 - .12¼
Mace, dist., cns., dms.....lb. 6.00 - 8.75
Mandarin, Brazilian, cns.....lb. 5.75 - 8.40
Italian, cns.....lb. 8.50 - —
Menhaden, crude, tanks, Balto....lb. .19 - .20
refined, alkali, dms., l.c.l.....lb. .22½- —
kettle-bodied, dms., l.c.l.....lb. .24 - —
light-pressed, dms., l.c.l.....lb. .23 - —
tanks .....lb. .20 - —
Mineral, white (see Oil, white mineral).
Mustard, NF, synth., cns.....lb. 1.40 - 1.70
Seed exp., dms., c.l.....lb. .22 - .22¼
Neatsfoot, 15°, ret. dms., works..lb. .48 Nom.
20°, ret. dms., works.....lb. .46 Nom.
30°, ret. dms., works.....lb. .45 Nom.
Neroli, French, bots.....lb.195.00 -300.00
Haitian, bots.....lb.180.00 -200.00
Nutmeg, cns.....lb. 5.50 - 8.75
Ocotea cymbarum, dms.....lb. .75 - 1.15
Officica, liquid, dms., c.l.....lb. .26 - —
l.c.l. .....lb. .26½- —
tanks .....lb. .25 - —
Oleo, extra, tcs., Chicago.....lb. .20½ Nom.
Olibanum, bots.....lb. 5.00 - 6.25
extra, fine.....lb 6.25 -10.50
Olive, denat., dms.....gal. No stocks
edible, Calif., dms.....gal. 5.25 - 5.50
imported, dms.....gal. 5.50 - 6.50
foots, dms., c.l.....lb. No prices
tankcars .....lb. No prices
sulphonated, 50% (40% fat), dms., c.l. lb No stocks
l.c.l. .....lb. No stocks
75% (62% fat), dms., c.l.....lb. No stocks
l.c.l. .....lb. No stocks
Orange, sweet, natural, dist., cns. .....lb. .90 - 1.25
expressed, USP, Brazilian, cns .....lb. 1.40 - 1.85
Calif., cns.....lb. 1.70 - 2.10
Florida, cns., dms.....lb. 1.40 - 1.85
Messina, coppers.....lb. 4.50 - 4.95
West Indian, cns.....lb. 2.25 - 3.75
sesquiterpeneless, bots.....lb.80.00 -135.00
Origanum Spanish, cs.....lb. 3.25 - 3.50
Palm, Niger, dms.....lb. No prices
Palmarosa, cns.....lb. 6.25 - 9.00
Palmkernel, crude, bulk, c.i.f., N. Y. .....lb. No prices
Paraffin, pale, 100-110 vis. @ 100° F. tanks, works..gal. .10 - —
Patchouli, imp., cns.....lb.15.00 -45.00



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Give it all your tests for *quality, uniformity* and *strength.* Then you'll buy Exchange Brand.

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Exchange
OIL OF
ORANGE
U. S. P.

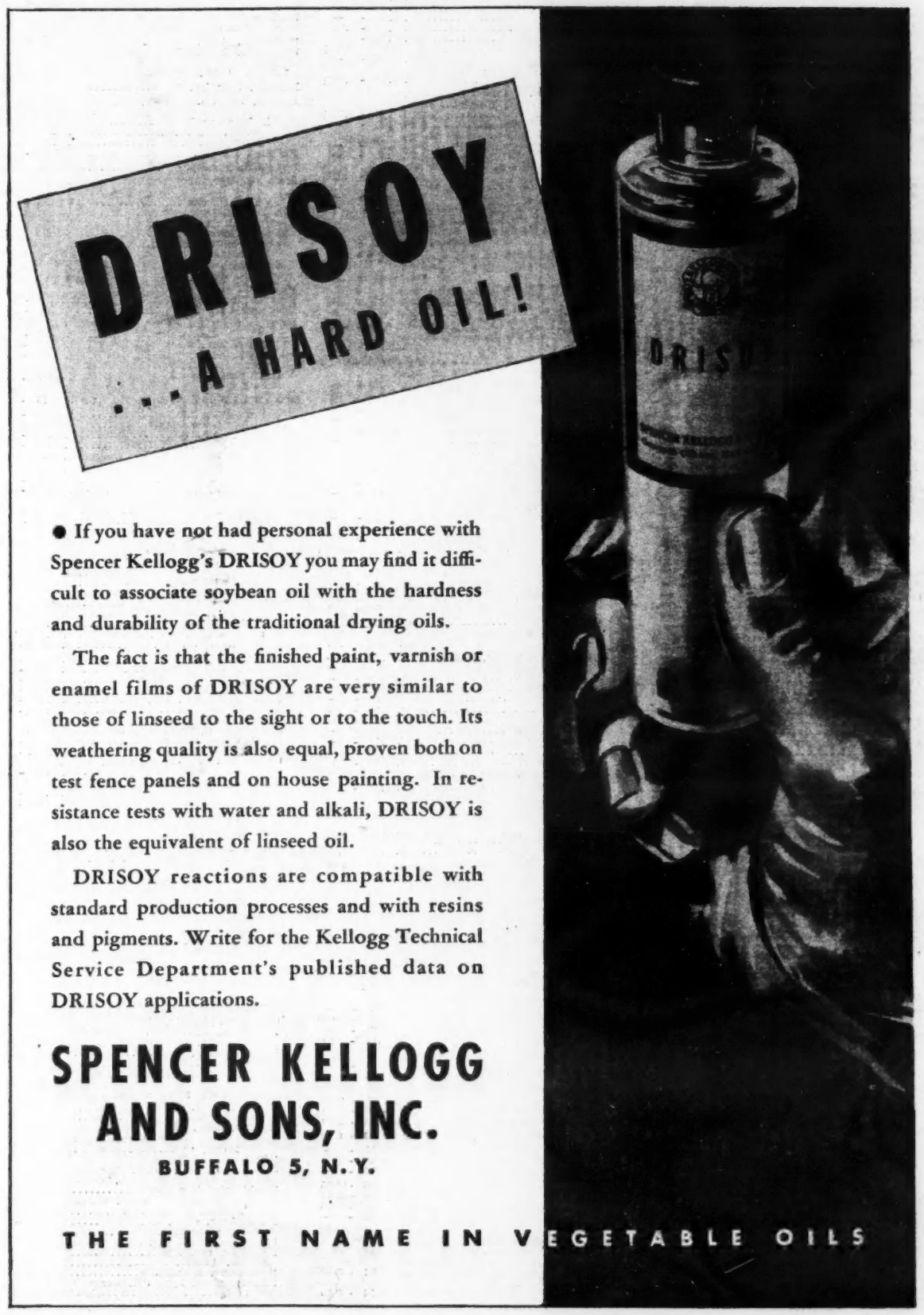
Oil, peanut, crude, tanks, works....lb. .24½ Nom.
foots, acid, 95%, tanks, dlvd. E..lb. .06½ Nom.
raw, 50% tanks, dlvd. E....lb. .03½ Nom.
refined, tanks, mills.....lb. .28 Nom.
Pennyroyal, USP, dom., dms., cns. lb. 3.82 - 4.75
import, cns.....lb. 3.80 - 5.00
Peppermint, natural, dms.....lb. 8.25 - 8.75
redist., USP, dms.....lb. 8.40 - 9.00
Perilla, crude, dms.....lb. No stocks
Petitgrain, Paraguay, cns.....lb. 3.50 - 4.30
Pimento berry, dms.....lb. 4.25 - 6.50
Leaf, cns.....lb. 1.95 - 3.25
Pine, dest. dist., dms. incl., c.l., works, South..gal. .70 - —
l.c.l., works, East.....gal. .79 - —
tanks, works, South.....gal. .61 - —
steam-dist., dms., ex whse., East.lb. .11 - —
Pinesneedle, Canadian, 25-lb. cans, lb. 2.20 - —
Siberian, cns.....lb. 3.05 - 3.75
Swiss, 25-lb. cans.....lb. 4.50 - —
Putty, petroleum, heavy, dms...gal. .18 - —
tankwagon.....gal. .13½- —
light, dms.....gal. .16½- —
tankwagon.....gal. .12½- —
Rapeseed, dms., c.l.....lb. No prices
Red, single dist., ret. dms.....lb. .26½- .27¾
tanks.....lb. .25½- —
double dist., ret. dms.....lb. .29¼- .30¼
tanks.....lb. .28 - —
Rose, natural, coppers.....oz. 16.00 -40.50
Rosemary, Spanish, tech., cns., dms. lb. 1.30 - 1.50
USP, cns., dms.....lb. 1.20 - 1.60
Rosin, 1st rectified, dms.....gal. .66 - —
2d rectified, dms.....gal. .68 - —
3d rectified, dms.....gal. .78 - —
Rue, bots.....lb. 4.65 - 5.50
Sage, Dalmatian, cns.....lb. 4.50 - 4.75
Spanish, cns.....lb. 2.20 - 3.50
Sandalwood, NF, Mysore, cns.....lb. 13.75 -22.50
Sardine, crude, tanks, Pac. coast, lb. .19 Nom.
refined, alkali, dms., l.c.l.....lb. .22½- —
kettle-bodied, dms., l.c.l.....lb. .24 - —
light-pressed, dms., l.c.l.....lb. .21 - —
tanks.....lb. .20 - —
Sassafras, artificial.....lb. 65 - 1.10
natural, Brazilian (see Oil, ocotea cymbarum).
domestic, USP XII, cns., dms..lb. 1.85 - 2.30
Savin, cns.....lb. 5.75 -12.00
Savory, cns.....lb. 8.00 - —
Seal, No. 1, tanks, U. S. ports...lb. No prices
Sesame, tanks.....lb. No prices
Shingle stain, bbls., c.l., works..gal. 21@5- —
l.c.l., works.....gal. 25 - 29
tanks, works.....gal 15 - 16
Snakeroot, Canada, cns.....lb. 17.50 -19.50
Soybean, crude, tanks, mills.....lb. .22 - —
foots, acid, 15%, tanks, dlvd. E lb. 06½ Nom.
raw, 50% tanks, dlvd. E...lb. 03½- 03½
refined, alkali, dms., c.l.....lb. .2585- —
l.c.l.....lb. .2620- .2660
tanks.....lb. .2465- —
clarified, dms., c.l.....lb. .2455- —
l.c.l.....lb. .2470- .2510
tanks.....lb. .2313- —
winterized, ref., tankcars.....lb. .26 Nom.
Spearmint, dms.....lb. 7.50 -11.00
Sperm, bleached, 38°, dms.....lb. .2570- —
natural, 45°, dms.....lb. .2570- —
Spruce, cns., dms.....lb. 2.25 - 2.75
Sunflower-seed (mp., refined, tanks, lb. No prices
semi-refined, tanks.....lb. No prices
Sweet birch, Northern, cns.....lb. 4.50 - 8.00
Southern, cns.....lb. 2.50 - 3.25
Tall, crude, tanks, works.....ton. 40.00 -45.00
refined, dms., c.l., works.....lb. .06¾- —
l.c.l., works.....lb. .07½- —
tanks, works.....lb. .05½- —
Tallow, acidless, dms., Chicago..lb. .26½ Nom.
Tansy, cns.....lb. 11.00 -14.00
Tar, pine, crude, dms. incl., c.l., works, South..gal. .39 - —
l.c.l., works, South.....gal. .40½- .41
tanks, works, South.....gal. .30 - —
rectified, USP, l.c.l., dms. incl., works, South..gal. .60 - —
Tar acid (see T).
Thyme, NF, red, cns.....lb. 2.75 - 3.30
white, cns.....lb. 2.85 - 3.80
technical, white, cns.....lb. .85 - 1.00
Tung, dms., c.l.....lb. .25 Nom.
l.c.l.....lb. .26 - —
tanks.....lb. .23 - .23½
Turkey red (see Oil, castor, sulphonated).
Turpentine, rectified, NF cns., dms..lb. .85 - .50
Vetiver, Bourbon, cns.....lb. 35.00 -38.00
Haitian.....lb. 28.50 -33.00
Whale, ref., natural, dms.....lb. No stocks
Winter-bleached, dms.....lb. No stocks
Wheat germ, dms.....gal. 10.00 -13.50
White mineral, tech., 50 vis., non-ret. dms., c.l., San Francisco.gal. .51½- —
l.c.l., S.F.....gal. .53½- .56½
50-60 vis. dms., c.l., N.Y. ...gal. .44½- —
l.c.l., N.Y.....gal. .48 - .49
65-75 vis., dms., c.l., N.Y.....gal. .47 - —
l.c.l., N.Y.....gal. .51 - .52
70 vis., non-ret. dms., c.l., S.F. gal. .51½- —
l.c.l., S.F.....gal. .53½- .56½
USP, 80-90 vis., dms., c.l., N.Y.gal. .51 - —
l.c.l., N.Y.....gal. .55 - .56
85 vis., non-ret. dms., c.l., S.F. gal. .51½- —
l.c.l., S.F.....gal. .53½- .56½
100 vis., non-ret. dms., c.l., S.F. gal. .59 - —
l.c.l., S.F.....gal. .61 - .64
125-135 vis., dms., c.l., N.Y...gal. .63 - —
l.c.l., N.Y.....gal. .67 - .68
145 vis., non-ret. dms., c.l., S.F. gal. .68 - —
l.c.l., S.F.....gal. .70 - .73
145-155 vis., dms., c.l., N.Y..gal. .65 - —
l.c.l., N.Y.....gal. .69 - .70
175-185 vis., dms., c.l., N.Y..gal. .66 - —
l.c.l., N.Y.....gal. .68 - .73
180 vis., non-ret. dms., c.l., S.F. gal. .70 - —
l.c.l., S.F.....gal. .72 - .75
200-210 vis., dms., c.l., N.Y..gal. .72 - —
l.c.l., N.Y.....gal. .76 - .77
340-350 vis., dms., c.l., N.Y..gal. .80 - —
l.c.l., N.Y.....gal. .80 - .85
340 vis., non-ret. dms., c.l., S.F. gal. .83 - —
l.c.l., S.F.....gal. .85 - .89
Wintergreen, natural, Northern, cns. lb. 6.35 -17.25
Southern, cns.....lb. 3.65 - 6.00
synthetic (see Methyl salicylate).
Wood (see Oil, tung).
Wormseed, NF, cns.....lb. 4.25 - 5.50
Wormwood, cns.....lb. 9.75 -13.50
Ylang-ylang, Bourbon, extra, bots.lb. 14.00 -25.00
first, bots.....lb. 12.50 -14.50
second, bots.....lb. 8.00 - 9.50
third, bots.....lb. 5.25 - 7.50
Oleostearin, tcs.....lb. .19 Nom.
Olivine, aggregate, c.l., mines....ton. 7.00 - 9.50
crushed, 8 mesh, bulk, c.l., works, ton. 10.00 - —
paper bgs., c.l., works.....ton. 12.00 - —
lumps, bulk, c.l., works.....ton. 7.00 - —
Opium, USP, cns.....lb. 21.30 -21.55
gran., USP, cns.....lb. 22.70 -29.95
powd., USP, cns.....lb. 22.70 -29.95

Orange, cadmium lithopone, bbls., frt alld. E. of Rockies.....lb. 1.00 - —
Chrome, CP, bbls., dlvd. N. of Tenn. and N. C., E. of Miss. R., includ. Davenport, Tenn. and N. C., E. of Minneapolis, Rock Island, St. Louis, St. Paul, contracts....lb. .26 - —
Chrome orange prices are ½c. higher, dlvd. Ala., Fla., Ga., La. (Shreveport); 1½c. Miss., N. C., S. C., Tenn., Dallas and Ft. Worth, Tex.; 1½c. El Paso, Tex.; 2c. Cedar Rapids, Des Moines, Kansas City, Lincoln, Omaha, St. Joseph; 1.6c. higher dlvd. Pac. Coast; for Denver, Pueblo, Salt Lake City, Wichita, prices are equalized with Chicago.
Orange, dinitroaniline toner.....lb. 1.15 - —
Molybdate, bbls.....lb. .39 - —
Orthonitroaniline toner, bbls., kgs., works..lb. .90 - .95
Persian, bbls.....lb. .50 - .45
Orange flowers, bls.....lb. .46 - 48
Orange mineral, American, bbls., 8 tons, ship't point, frt. alld....lb. .20½- —
smaller lots, bbls., same basis, lb. .21 - —
Orange peel, bitter, Haitian, bls..lb. .13 - .14
Sweet, bls.....lb. .14 - .16
Oregano, Italian, bgs.....lb. .27 - 27½
Mexican, bgs.....lb. .16 - 16½
Portuguese, bgs.....lb. .19½- .20
Orris root, Florentine, bls.....lb. .84 - .85
powdered, bbls., bxs.....lb. .36 - .37
Verona, bls.....lb. .22 - .23
powdered, bbls., bxs.....lb. .24 - .25
Orthoaminobiphenyl dms., c.l., works lb. .24 - —
l.c.l., same basis.....lb. .23½- —
tanks, same basis.....lb. .22 - —

Orthoamylphenol, dms., l.c.l., works. lb. .37 - —
Orthoanisidin, bbls.....lb. .70 - —
Orthochloroaniline, dms., 10,000 lbs. or more..lb. .53 - —
smaller lots.....lb. .55 - .60
Orthochlorophenol, dms.....lb. .37 - —
Orthocresol, pure, 30°, dms., c.l., works..lb. .26½- —
l.c.l., works.....lb. .27 - —
tech., 29°-30°, dms., c.l., works. lb. .25 - —
l.c.l., works.....lb. .25½- —
Orthodichlorobenzene, dms., c.l., wks., frt. alld. E. of Rockies..lb. .07½- .08
l.c.l., same basis.....lb. .09½- .10½
tanks, same basis.....lb. .07 - —
Orthodichlorobenzene prices W. of Rockies 1c. per lb. higher.
Orthoisopropyl N-phenylcarbamate (see IPC).
Orthonitroaniln, dms.....lb. .43 - .65
Orthonitrochlorobenzene, dms.....lb. .15 - .18
Orthonitrobiphenyl, tech., dms., c.l., works..lb. .12 - —
l.c.l., works.....lb. .13 - —
Orthonitroparachlorophenol, cns...lb. .75 - —
Orthonitrophenol, dms.....lb. .66 - —
Orthonitrotoluene, dms.....lb. .08 - .09
Orthophenetidin, dms.....lb. .90 - —
Orthotolidin, distilled, kgs.....lb. 1.00 - —
Orthotoluidin, dms.....lb. .18 - .21
Osage orange crystals, bbls.....lb. .32 - —
Extract, No. 1, bbls.....lb. .15 - —
Ouabaine, USP, bots.....gram. 3.00 - 4.00
Oxyquinolin sulphate, cns., 100 lbs., works..lb. 6.40 - —
smaller lots, works.....lb. 6.55 - 7.40

P

Papain, powd., cs.....lb. 6.25 - 7.25
Papaverine, natural or synthetic, hydrochloride, NF, cns..1,000-oz. lots..oz. 7.00 - —
smaller lots.....oz. 7.25 - 7.60
Sulphate, cns.....oz. 7.10 - 7.35
Paprika, Chilean, bgs.....lb. 31½ Nom.
Portuguese, bgs.....lb. .40 - .41
Spanish, bgs.....lb. .42½- .43
Para-anisidin, dms., works.....lb. .75 - —
Parachlorophenol, dms., c.l., works..lb. .25 - —
l.c.l., works.....lb. .27½- .29
Parachloroaniline, dms., frt. alld E Miss. lb. .65 - —
Paracresol, 98%, dms., works.....lb. .41 - .65
Paracymene, dms., c.l., works.....lb. .1595- —
l.c.l., works.....lb. .1645- —
tanks, works.....lb. .1545- —
Paradichlorobenzene, dms., c.l., works. lb. .12½- —
l.c.l., same basis.....lb. .14 - —
Paraffin, crude, scale, white or yellow, 124-126 ASTM, bbls., c.l., refinery..lb. 065 - .09
fully ref'd, slabs, 117-119 ASTM, loose, c.l., refy..lb. .05 - —
122-125 ASTM, loose, c.l., refy..lb. .0635- —
125-127 ASTM, loose, c.l., refy..lb. .0715- —
128-130 ASTM, loose, c.l., refy..lb. .0740- —
130-132 ASTM, loose, c.l., refy..lb. .0770- —
133-135 ASTM, loose, c.l., refy..lb. .0795- —
135-137 ASTM, loose, c.l., refy..lb. .0860- —
Prices in bags ¾c. lb. higher; l.c.l. prices 1½c. lb. higher.
Paraformaldehyde, dms., 1,000 lbs., works..lb. .21 - —
smaller lots, works.....lb. .22 - —



● If you have not had personal experience with Spencer Kellogg's DRISOY you may find it difficult to associate soybean oil with the hardness and durability of the traditional drying oils.

The fact is that the finished paint, varnish or enamel films of DRISOY are very similar to those of linseed to the sight or to the touch. Its weathering quality is also equal, proven both on test fence panels and on house painting. In resistance tests with water and alkali, DRISOY is also the equivalent of linseed oil.

DRISOY reactions are compatible with standard production processes and with resins and pigments. Write for the Kellogg Technical Service Department's published data on DRISOY applications.

SPENCER KELLOGG AND SONS, INC.
BUFFALO 5, N. Y.

THE FIRST NAME IN VEGETABLE OILS

Paraldehyde, Technical—Quinine Sulphate

Paraldehyde, tech., 98%, 55 gals., dms., l.c.l., works..lb. .12½- .13½
5-10-gal. dms., l.c.l., works..lb. .16½- —
tanks, works .....lb. .11 - —
USP, chys. .....lb. .37 - .40
Paranitroaniliin, kgs., works.....lb. .41 - .43
Paranitrochlorobenzene, kgs., works.lb. .15 - —
Paranitrophenol, kgs., works, frt. equald..lb. .35 - —
Paranitrotoluene, kgs., works.....lb. .30 - —
Paraphenylenediamine, tech., kgs., works..lb. 1.25 - —
Paratoluenesulphonamide, bbls., works, lb. .70 - —
Paratoluidin, bbls., works.....lb. .46½- .53
Paris green, dealer, distributor, dms., kgs., c.l., works, frt. alld. E. lb. .31 - —
l.c.l., same basis.....lb. .32 - .33
Passion flower herb, bls.....lb. .35 - .40
Patchouli leaves, bls.....lb. .38 - .40
Pectin, citrous, bbls.....lb. 1.25 - —
Penicillin, amorph., calcium, bulk, 1,000,000,000 units., 100,000 units. 19 - —
sodium, bots.....100,000 units. .25 - —
bulk 1,000,000,000 units..... 100,000 units. .21 - —
eryst., sodium, bots....100,000 units. .27 - —
Pennyroyal leaves, bls.....lb. .24 - .25
Pentachlorophenol, dms., works....lb. .20 - .25
Pentaerythritol, tech., bbls., c.l., works..lb .32 - —
l.c.l., works.....lb. .34 - .36
Pentane, 28°-38° C., industrial, dms., c.l., group 3..gal. .11 - .14
l.c.l., dms., group 3.....gal. .17 - .30
tanks, group 3.....gal. .07½- 08
Pepper, black, bgs.....lb. .42 - .42½
futures, bgs. .....lb. .40 - .41
Red, capsicum, Louisiana longs, bgs., shipment point..lb. .18½- .19
Mississippi sports, bgs., source, lb. .21 - .21½
Mombasa, bgs. .....lb. .40 - .41
Niger, bgs. .....lb. .20 - .20½
birdseye, bgs. .....lb. .37 - .38
Sierra Leone, futures.....lb. .23 - .23½
Chillies, Haitian, bgs.....lb. No stocks
Mexican, long .....lb. No stocks
White, bgs. .....lb. .55 - .56
Peppermint, USP, dom., bls.....lb. 75 - 80
imported, bls.....lb. .80 - .85
Perchloroethylene, dms., c.l., zone 1, works, frt. alld..lb. .10¾- —
zone 2, same basis.....lb. .11¼- —
zone 3, same basis.....lb. .11¾- —
zone 4, same basis.....lb. .11¾- —
l.c.l., zone 1, same basis.....lb. .11¼- —
zone 2, same basis.....lb. .12 - —
zone 3, same basis.....lb. .12½- —
zone 4, same basis.....lb. .12 - —
tanks, zone 1, same basis.....lb. .10¼- —
zone 2, same basis.....lb. .10¾- —
zone 3, same basis.....lb. .11¼- —
zone 4, same basis.....lb. .10¾- —

Perchloroethylene zones are:—(1) Conn., Del., Ill., Ind., Ia., Ky., Me., Md., Mass., Mich., Minn., Mo., Neb. (Omaha), Kans. (Kansas City), N. J., N. Y., N. C., Ohio, Pa., R. I., Tenn., Vt., Va., W. Va., Wis.; (2) Ala., Ark., Fla., Ga., Kansas, La., Miss., Neb., N. D., Okla., S. C., S. D.; (3) Col., Mont. (E) N. M., Tex., Wyo.; (4) Ariz., Cal., Idaho, Mont. (W), Nev., Ore., Utah, Wash.

Peru balsam, dms.....lb. .85 - .90
Petrolatum, tech., dark, bbls., c.l., group 3..lb. .021 - —
Pennsylvania refy.....lb. .045 - —
golden topaz, bbls., c.l.....lb. .032 - —
l.c.l. .....lb. .036 - —
red, veterinary, bbls., c.l.....lb. .024 - —
l.c.l. .....lb. .028 - —
USP, amber, non-ret. dms., c.l....lb. .04½- —
Pennsylvania refy.....lb. .04¾- —
l.c.l. .....lb. .05½- —
California, refy.....lb. .08 - —
cream, c.l., dms.....lb. .06½- —
l.c.l. .....lb. .07½- .08
extra amber, dms., c.l.....lb. .04¾- —
l.c.l. .....lb. .05¾- —
white, lily, dms., c.l.....lb. .06¾- .07
l.c.l. .....lb. .08¼- —
snow, dms., c.l.....lb. .07¾- —
Pennsylvania refy.....lb. .08¼- —
l.c.l. .....lb. .09¼- —
California, refy.....lb. .11¾- —
soft, dms., c.l.....lb. .06¼- —
Pennsylvania refy.....lb. .07¼- —
l.c.l. .....lb. .07¼- .07½
California, refy.....lb. .1075- —
yellow, soft, dms., c.l.....lb. .04½- —
Pennsylvania refy.....lb. .04⅝- —
l.c.l. .....lb. .05¾- —
California, refy.....lb. .08 - —
Petroleum, crude, bulk, at wells, California, heavy grades..bbl. 1.57 - 2.34
Illinois .....bbl. 1.95 - 2.07
Kentucky .....bbl. 1.90 - 2.07
Louisiana-Arkansas .....bbl. 1.63 - 2.09
Montana .....bbl. 1.80 - 2.05
Oklahoma-Kansas .....bbl. 1.55 - 1.95
Pennsylvania, lower field..bbl. 3.95 - 4.50
Upper field .....bbl. 2.60 - 4.50
Texas, East .....bbl. 1.95 - —
Gulf coast .....bbl. 1.76 - 2.18
North, North-Central .....bbl. 1.25 - 1.95
Panhandle .....bbl. 1.25 - 1.95
West .....bbl. 1.25 - 1.95
Wyoming .....bbl. 1.25 - 2.05
Ether, laboratory, 30°-60° C. cns., dlvd. E..gal. .55 - —
dms., c.l., group 3.....gal. .16 - —
l.c.l., same basis.....gal. .29 - —
35°-60° C, 10-gal. cns., dlvd. E..gal. .55 - —
dms., c.l., Group 3.....gal. .16 - —
l.c.l., same basis.....gal. .29 - —
40°-75° C, 10-gal. cns., dlvd. E..gal. .55 - —
dms., c.l., Group 3.....gal. .16 - —
l.c.l., same basis.....gal. .29 - —
Fuel oil, bunker C (No. 6), California, heavy, tanks, refinery. bbl. 1.50 - 1.55
light, tanks, refinery.....bbl. 1.70 - 1.75
Eastern, tanks, Albany, N. Y., bbl. 2.72 - —
Baltimore, Md. .....bbl. 2.22 - 2.52
Boston, Mass. .....bbl. 2.26½- 2.56½
Charleston, S. C. .....bbl. 2.13 - —
Jacksonville, Fla. .....bbl. 2.08 - 2.18
New York, N. Y.....bbl. 2.22 - 2.52
Norfolk, Va.....bbl. 2.18 - 2.28
Philadelphia, Pa. .....bbl. 2.22 - 2.52
Portland, Me. .....bbl. 2.26½- 2.56½
Providence, R. I. .....bbl. 2.23½- 2.53½
Savannah, Ga. .....bbl. 2.13 - 2.23
Oklahoma, tanks, refinery...bbl. 2.00 - 2.40
Diesel, tanks, refinery, California .....gal. .0745- .0795
Pennsylvania .....gal. .0875- .1000
Furnace, tanks, refinery, Arkansas, No. 2..gal. .0687½- —
No. 3 .....gal. .0662½- —
Bayonne, N. J., No. 2.....gal. .072 - —
Group 3, No. 1.....gal. .0687½-.0712½
No. 2, straw.....gal. .0662½- .0675
No. 3 .....gal. .0650-.0662½
Oklahoma, No. 1, p.w....gal. .0687½-.0737½
No. 1, straw.....gal. .0712½- —
No. 2, straw.....gal. .0662½- .08
No. 3 .....gal. .0662½- —
range .....gal. .07 -.0725
Pennsylvania, No. 1.....gal. .0912½- .10
No. 2 .....gal. .09 - .10
No. 3 .....gal. .0875- .0950
Petroleum lacquer diluent, California, 100 l.b.n., 200 c.p., tanks, dlvd.
Los Angeles.....gal. .118 - —
Portland, Ore. .....gal. .128 - —
San Francisco .....gal. .11½- —
Seattle, Wash. .....gal. .128 - —
East coast, tanks, N. J. and N. Y. refinery.....gal. .13 - .13½
Group 3, benzol-type, tanks, refinery..gal. .0687½-.1062½
toluol-type, tanks, refinery..gal. .0937½-.1012½
Mineral spirits, California, tanks,
San Francisco, 170-250 b.r...gal. .123 - —
205-290 b.r.....gal. .123 - —
244-362 b.r.....gal. .123 - —
307-360 b.r.....gal. .113 - —
312-402 b.r.....gal. .113 - —
362-458 b.r.....gal. .113 - —
East coast, tanks, N. J., N. Y. refinery .....gal. .12½- .13
tankwagon, Baltimore.....gal. .15 - —
Boston .....gal. .13½- .14
Buffalo .....gal. .14 - .14½
Camden, N. J. .....gal. .12½- —
Chicago .....gal. .159 - —
Detroit .....gal. .182 - —
Kansas City, Mo. .....gal. .15½- —
Lancaster, Pa. .....gal. .13½- —
Newark .....gal. .12½- —
New York.....gal. .12¼- .13
Philadelphia .....gal. .12½- —
Pittsburgh .....gal. .14 - —
Providence .....gal. .14 - —
Rochester .....gal. .15 - —
St Louis.....gal. .161 - —
Syracuse .....gal. .16 - .16½
Washington, D. C. .....gal. 15 - —
Group 3, tanks, refinery.....gal. .0837½-.0862½
Gulf coast, tanks, refinery.....gal. .0875- —
Naphtha, cleaners, California, tanks, San Francisco..gal. .123 - —
East coast, tanks, N. J., N. Y., refinery..gal. .12½- .13
tankwagon, Newark.....gal. .12½- —
Chicago .....gal. .144- —
Detroit .....gal. .15½- —
New York .....gal. .12 - .13
Philadelphia .....gal. .125 - —
Group 3, tanks.....gal. .0937½-.0962½
tankwagons, St. Louis.....gal. .1470- —
High-flash, 140° F, group 3 refinery, tanks..gal. .12 - .12½
High-solvency, tanks, refinery, N. J., 200-285 b.r., 37-38° C., mixed anilin pt. .....gal. .18 - .18½
26°C m.a.p.....gal. .20 - —
270-370 b.r., 78-81 m.a.p. gal. .21 - —
19°C m.a.p. .....gal. .23 - —
305-400 b.r., 26-30°C m.a.p. gal. .21¼- .21½
340-440 b.r., 32°C m.a.p. gal. .21½- —
26°C m.a.p.....gal. .25½- —
V.M.&P., at refinery, California, 46.5, 254-380 b.r., tanks, El Segundo..gal. .12 - —
Richmord .....gal. .12½- —
Portland, Ore., Seattle, Wash .gal. .12 - —
64-77, 190-316 b.r., tanks, Los Angeles..gal. .11 - —
San Francisco.....gal. .11½- —
Portland, Seattle .....gal. .12 - —
East coast, N. J., N. Y., tanks, gal. .14 - .15
Group 3, tanks.....gal. .0937½-.0962½
Gulf coast, tanks, New Orleans gal. .10 - —
tankwagon, Boston.....gal. .145 - .15
Chicago .....gal. .162 - —
Detroit .....gal. .174 - —
Milwaukee .....gal. .178 - —
Minneapolis .....gal. .176 - —
Newark .....gal. .14 - —
New York .....gal. .135 - .14
Philadelphia .....gal. .14 - —
Pittsburgh .....gal. .15 - —
St. Louis .....gal. .171 - —
Solvent, rubber, at refinery California, tanks, San Francisco, gal. .11½- —
East coast, N. J., N. Y., tanks, gal. .12½- .13
Group 3, tanks.....gal. .0875- .09625
Stoddard (C.S. 8-38), at refinery, California tanks, San Francisco, gal. .12 - —
East coast, N. J., N. Y., tanks..gal. .12½- .13
Group 3, tanks.....gal. .0887½-.0912½
Pennsylvania, western, tanks gal. .0975- .10
Stoddard, tankwagon, Boston....gal. .13 - —
Chicago .....gal. .14½- —
Detroit .....gal. .16½- —
Milwaukee .....gal. .15½- —
Minneapolis .....gal. .154 - —
Newark .....gal. .12½- —
New York .....gal. .12¼- .13
Philadelphia .....gal. .12½- —
Pittsburgh .....gal. .14 - —
St. Louis .....gal. .16 - —
Syracuse .....gal. .16 - .16½
Sulphonate, 70% sulphonic content, ret. dms., c.l., works..lb. .134 - —
l.c.l., works.....lb. .144 - —
tanks, works.....lb. .124 - —
50% sulphonic content, ret. dms., c.l., works..lb. .1065- .1075
l.c.l., works.....lb. .1100- .1165
tanks, works.....lb. .0965- .0975
Phenobarbital, dms., 100 lbs. ....lb. 3.50 - 4.50
Phenol, 90-92% (cresol, 8-10%), dms., c.l., works, frt. equald. ...lb. .12 - .12¾
l.c.l., same basis .....lb. .12¾- .13¼
tanks, same basis.....lb. .11 - .11¼
82-84% (cresol, 16-18%), dms., c.l., same basis.....lb. .12½- .13
l.c.l., same basis.....lb. .13¼- .13½
tanks, same basis.....lb. .11½- .12
USP, dms., c.l., same basis.....lb. .11½- .12½
l.c.l., same basis.....lb. .12¼- .13
tanks, same basis.....lb. .10½- .11½
Phenolphthalein, USP, bbls., dms., 2,000 lbs. ..lb. .85 - —
smaller lots .....lb. .87 - .92
yellow, fib. dms., 2,000 lbs.....lb. .85 - —
smaller lots.....lb. .87 - .92
Phenothiazin, NF, fib. dms., ton lots, works..lb. .49 - —
smaller lots, works.....lb. .54 - —
Phenylacetaldehyde solution, 50%, bots. lb. 2.35 - 2.70
pure, bots .....lb. 4.00 - 4.40
Phenylethyl acetate, dms.....lb. 2.15 - 2.70
Phenylethylphenyl acetate, bots.....lb. 4.50 - 6.00
Phenylhydrazin base, CP, bots.....lb. 4.55 - —
Hydrochloride, CP, bots., works...lb. 7.10 - —
commercial, kgs., works.....lb. 1.75 - —
Phloroglucinol, CP, fib. dms.....lb. 13.75 -14.75
tech., fib, dms .....lb. 10.00 -12.55
Phosgene, 150-lb. cyls., works.....lb. 20½- .35
10-lb. cyls., works.....lb. 1.00 - —
Phosphate, defluorinated (see under D.).
Phosphate rock, Florida, land pebble, run-of-mine, washed, dried, unground, 68-66%, b.p.l., bulk, c.l., car at mine..long ton. 3.34 - 3.49
70%-68%, b.p.l., c.l., same basis..long ton. 3.74 - 3.89
72%-70%, b.p.l., c.l., same basis..long ton. 4.34 - 4.49
Phosphate rock, Florida, 75%-74%, b.p.l., same basis.....long ton. 5.34 - 5.49
77%-76%, b.p.l., c.l., same basis..long ton. 6.34 - 6.49

Prices for Florida phosphate rock are plus usual bonus penalty clause on oil and labor. Prices on entirely pebble 50c. per long ton higher than above quotations.

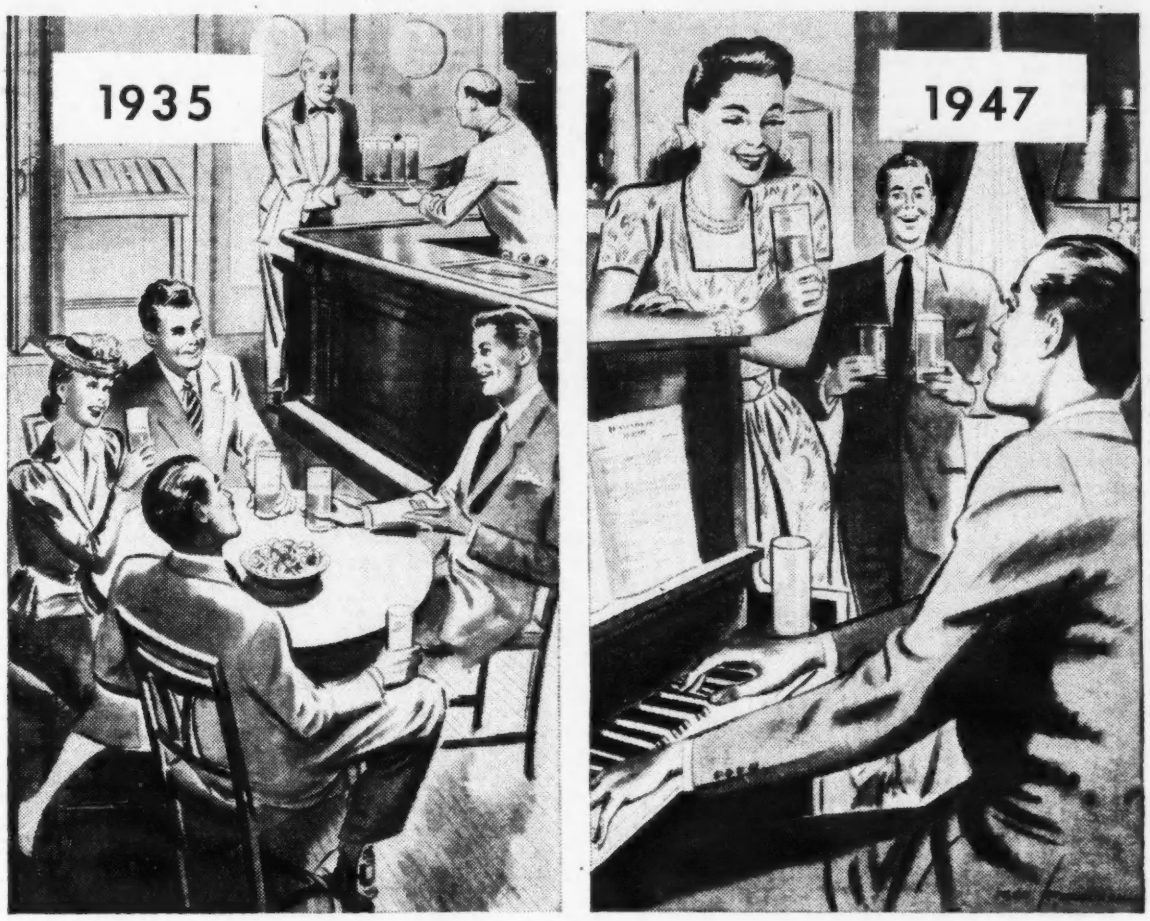
finely ground 65.5% b.p.l., basis 30% P_2O_5 minimum.. short ton. 5.00 - —
68%, b.p.l., basis 31% P_2O_5 minimum..short ton. 5.20 - —
70%, b.p.l., basis 32% P_2O_5 minimum..short ton. 5.55 - —
Tennessee, brown, run-of-mine, unground, 70-68% b.p.l., 5½% i. & a., same basis..long ton. 5.50 - —
72%-70%, b.p.l., 5½% i. & a., same basis..long ton. 6.00 - —
29% P_2O_5, same basis..... long ton. 5.15 - —
30% P_2O_5, same basis..... long ton. 5.35 - —
31% P_2O_5, same basis..... short ton. 5.45 - —
32% P_2O_5, same basis..... short ton. 5.70 - —
33% P_2O_5, same basis..... short ton. 6.20 - —
Phosphorus, red, amorphous, cs.....lb. .33 - .35
tins, export.....lb. .40 - .45
Yellow, cns. .....lb. .25 - .27
dms., c.l. .....lb. .22 - —
Oxychloride, dms., works.....lb. .10¾- .13¾
Pentoxide, dms., c.l., works....lb. .12 - —
l.c.l., works .....lb. .13 - .14
Sesquisulphide, tins, cs., works...lb. .26 - .27
Trichloride, dms., c.l., works.....lb. .10¾- —
l.c.l., works.....lb. 12¾- .13¾
Phthalanide, bbls., works.....lb. .35 - .40
kgs., works.....lb. .45 - .50
Phthalic anhydride, bgs. bbls., c.l., works, frt. equald..lb. .17½- —
l.c.l., same basis.....lb. .18½- —
Pichi leaves, bgs.....lb. .07 - .08
Picoline (see Alphapicoline and Betapicoline).
Picrotoxin, bots. .....oz. 8.00 - —
Pilocarpine hydrochloride, USP, bots., vials..oz. 6.50 - 7.50
Nitrate, bots., vials.....oz. 6.25 - 7.25
Pimento, Jamaica, bgs.....lb. .24 - .24½
Pinetar, retort dms. incl., c.l., works, South..gal. .39 - —
l.c.l., same basis.....gal. .40½- .41
whse., N.Y.C. .....gal. .50¼- —
tanks, works, South.....gal. .30 - —
Pinkroot, bls. .....lb. 1.10 - 1.15
Piperazine hexahydrate, bots.....lb. 11.50 -12.50
Pitch, coaltar, 150° m.p., bbls., c.l., works..ton. 25.25 - —
l.c.l., works .....ton. 28.25 - —
Cottonseed, dms., works.....lb. .10½- .10¾
Hardwood, paper bgs., works....lb. .04 - —
Linseed, dms.....lb. No prices
Petroleum (see Asphaltum, Mexican, Texas).
Pine, dms., ex whse. East....100 lbs. 6.90 - —
Soybean, dms., works.....lb. .10¼- .10½
Plaster of paris (see Gypsum).
Podophyllin, dms. .....lb. 13.50 -13.75
Pokeroot, bls. .....lb. .21 - .22
Polystyrene, plain colors, bgs., 30,000 lbs., works, frt. alld..lb. .31½- —
20,000 lbs., same basis.....lb. .32½- —
smaller lots, same basis.....lb. .38½- .54½
Water-clear, polystyrene, 7c.-18c. per lb. less than plain colors, depending on quantity; plain colors, dms., ½c. higher.
Pomegranate root bark, bgs.....lb. .75 - .76
Poppy flowers, bls.....lb. .60 - .70
Seed, Argentine, bgs.....lb. .19 - .19½
Danish, bgs.....lb. .20½- .21
Dutch, bgs.....lb. .23½- .24
Turkish, bgs.....lb. .21 Nom.
Potash, caustic, low-chloride, flake, 90%, dms., c.l., works..100 lbs. 9.50 - —
l.c.l., works.....100 lbs. 19.25 - —
liquid, dms., c.l., works...100 lbs. 8.75 - —
l.c.l., works.....100 lbs. 9.50 - —
tanks, works.....100 lbs. 8.25 - —
solid, 90%, dms., c.l., works... 100 lbs. 8.75 - —
l.c.l., works.....100 lbs. 9.50 - —
regular, flake, 88-92%, dms., c.l., works..lb. .07½- .0785
l.c.l., works.....lb. .08¼- —
liquid, 45% basis, dms., c.l., works..lb. .0337½-.0357½
l.c.l., same basis.....lb. .03⅝- —
tanks, same basis.....lb. .03½- .03¾
solid, 88-92%, dms., c.l., works.lb. .06¾- .07¼
l.c.l. .....lb. .07½- —
Potassium abietate.....lb. .08 - —
Acetate, USP, dms.....lb. .32 - .34
Bicarbonate, USP, gran., dms....lb. .20 - .22
powd., dms.....lb. .22 - .24
Bichromate, bgs., c.l., works.....lb. .11½- —
l.c.l., works.....lb. .11⅝- .11¾
Potash bichromate in bbls., ¼c. higher.
Borate, gran., bbls., c.l., works..ton. 200.00 - —
ton lots, works .....ton. 218.50 - —
less ton lots works.....ton. 223.50 - —
Bromide, USP, cryst., gran., bbls., kgs..lb. .28 - —
Carbonate, tech., calcined, bbls., c.l., works..lb. .07¼- .07½
l.c.l., same basis.....lb. .08 - —
hydrated, 83-85%, bbls., c.l., works..lb. .05¾- .06
dms., l.c.l., works.....lb. .06½- —
USP, gran., bbls., dms.....lb. .14 - .19
powd., bbls., dms.....lb. .20 - .25
Chromate, tech., bgs.....lb. .25 - .29
Chlorate, cryst., kgs., c.l., works..lb. .08¼- —
l.c.l., works.....lb. .09¾- —
powd., dms., kgs., c.l., works..lb. .09 - —
l.c.l., works.....lb. .09¾- —
export, kgs., 1 to 10 tons, ex whse..lb. .12 - —
Chloride, tech., cryst., 98%, bgs., kgs..lb. .08 Nom.
Citrate, USP, gran., bbls., dms..lb. .35½- .40½
Potash citrate, USP, powd., 3c. per lb. higher.
Cyanide, dms., works.....lb. .55 - —
Fluoride, bbls......lb. .34 - .40
Glycerophosphate, 75% solution, cbys. lb. 2.30 - —
Guaiacolsulphonate, NF, dms....lb. 1.80 - 1.85
Hydroxide, tech. (see Potash, caustic), USP, sticks, dms.....lb. .34 - .36
Hypophosphite, cns.....lb. .72 - .75
Iodide, dms.....lb. 1.95 - 1.98
Manure salt, 22% K_2O, bulk, mines, unti-ton. .20 - —
25% K_2O, bulk, mines..unit-ton. .21 - —
Metabisulphite, gran., bbls.....lb. .19 - .21
powd., bbls.....lb. .25 - —
Muriate, dom., 60% K_2O, bulk, Carlsbad, N. M...unit ton. .37½- —
Trona, Cal.....unit ton. .45½- —
Nitrate (see Saltpeter).
Oxalate, neutral, tech., fine gran., bbls., dms..lb. .28 - .34
Perchlorate, kgs., works.....lb. .12½- .14
Permanganate, tech., dms., works.lb. .20¾- .21¼
USP, dms., works.....lb. .22½- .23
Persulphate, dms., c.l., works.....lb. .16 - —
l.c.l., works.....lb. .20 - —
Phosphate, tetrabasic, bbls., works.lb. .13 - .13½
Prussiate, red, kgs.....lb. .55 - .58
Yellow, bbls.....lb. .19 - —
Ricinoleate, tech., bbls.....lb. .18 - —
Silicate, glass, bgs., c.l., works..ton. 200.00 - —
l.c.l. .....100 lbs. 15.25 - —
solution, 29° Be, ret. drums, c.l., works..100 lbs. 4.25 - —
Potassium silicate, solut., 29° Be, dms., l.c.l., 5 or more, works. 100 lbs. 5.00 - —
1-4, works.....100 lbs. 5.50 - —
32° Be, ret. dms., c.l., works. 100 lbs. 4.75 - —
l.c.l., 5 or more, works. 100 lbs. 5.50 - —
1-4, works.....100 lbs. 6.00 - —
40.5° Be, ret. dms., c.l., works. 100 lbs. 5.75 - —
l.c.l., 5 or more, works. 100 lbs. 6.50 - —
1-4, works.....100 lbs. 7.00 - —
Sulphate, NF, cryst., bbls.....lb. .30½- .33¼
powd., bbls. .....lb. .14½- .17
tech., dom., bulk, basis 90-95% K_2O_4 min. 90%, ex vessel Atlantic or Gulf ports...ton. 36.25 - —
West coast ports.....ton. 59.25 - —
Sulphocyanide, cryst., N.F., dms..lb. .62 - .70
Thiocyanate (see sulphocyanide).
Xanthate, dms., c.l......lb. .12 - —
Potassium-magnesium sulphate, bulk, min., 40% K_2SO_4 18-50% MgO, ex vessel, ports..ton. 26.00 - —
Potassium-sodium ferricyanide, kgs., works..lb. .45 - .48
Potassium-sodium tartrate (see Rochelle salt).
Potassium - titanium oxalate, bbls., dms..lb. .50 - .55
Prickly ash bark, bls.....lb. .33 - .34
Berries, bgs. .....lb. .20 - .21
Prince's pine herb, bls.....lb. .55 - .60
Procaine hydrochloride, cns., 100-lb. lots..lb. 4.90 - 5.00
Propane, commercial grade, tanks, group 3..gal. .04 - .05
Propionaldehyde, tanks, f.o.b. works.lb. .15 - —
Propyl aldehyde (see Propionaldehyde).
Propylene dichloride, dms., c.l.....lb. .08½- —
l.c.l. .....lb. .09½- —
smaller containers.....lb. .12½- —
tanks .....lb. .07 - —
Oxide, dms., c.l., frt. equald.....lb. .19 - —
l.c.l., same basis.....lb. .20 - .21
tanks, frt. equald.....lb. 17½- —
Propyleneglycol, dms., c.l., frt. alld. E..lb. .16 - —
l.c.l., same basis.....lb. .16½- .18
tanks, same basis.....lb. 14½- —
Propylthiouracil, bots, works....kilo. 50.00 - —
Psyillium seed (see Fleaseed).
Pulsatilla herb, bls.....lb. .60 - .65
Pumice, dom., grd., coarse, 0-½, 1, 1½, 2, 3, bgs., ton..lb. .03⅝- .04
Chicago .....lb. .04½- —
smaller lots.....lb. .05¾- .04¼
fine, bgs., ton.....lb. .03⅝- —
smaller lots.....lb. .03¾- .04
Italian, silk-screen, fine, bgs., ton..lb. .04 - —
coarse, bgs., ton.....lb. .05½- —
sun-dried, fine, bgs., ton.....lb. .03 - —
coarse, bgs., ton.....lb. .04½- —
Pumice in bbls. is ½c. per lb. higher.
Pumpkin seed bgs.....lb. .27 - .29
Purple lake (see Red).
Pyrethrum concentrate, dewaxed, 20%; for aerosol bombs, dms., works..lb. 9.25 - 9.30
liquid (20 to 1), basis 2 grams pyrethrins per 100cc., odorless base, dms., works..gal. 6.50 - —
regular base, dms., works..gal. 6.65 - —
(30 to 1), base 3 grams pyrethrins, per 100 cc, odorless base, bbls., works..gal. 10.00 - —
Flowers, fine-grd., 0.9% pyrethrins, bbls., works..lb. .33¾- —
powder, 0.5% pyrethrins, bbls., works..lb. .25 - —
Pyridin, denaturing, ret. dms., works, frt. equald..gal. 1.55 - 1.90
refd., 2°, ret. dms., same basis..lb. .60 - .65
Pyridoxin hydrochloride, 100-gram lots. kilo. 650.00 - —
Pyrites, Spanish, c.i.f. Atl. ports, long-ton 8.00 -10.00
Pyrocatechin (see Catechol).
Pyronate, dms., c.l., dlvd. E. of Miss. gal. .70 - —
l.c.l., works.....gal. .70 - —
tanks, dlvd., E. of Miss.....gal. .60 - —
Pyronate prices W. of Miss., 3c. per gal. higher.
Pyrophyllite, standard, 200 mesh, bulk, c.l., mines..ton. 11.00 -11.50
325 mesh, bulk, c.l., mines....ton. 14.00 - —
No. 3, 200 mesh, bulk, c.l., mines. ton. 9.50 - —
Insecticide grade, 200 mesh, bulk, c.l., mines..ton. 9.00 -10.00
rubber grade, 140 mesh, bulk, c.l., mines..ton. 7.00 - —
230 mesh, bulk, c.l., mines..ton. 12.00 - —
Pyrophyllite in paper bgs., $1.50-$2.50 per ton extra.
Pyroxylin scrap, opaque, amber, cs., works..lb. .17 - —
black, cs., works.....lb. .14 - —
gray, cs., works.....lb. .14 - —
mixed, mottled, cs., works...lb. .12 - —
white, china, ivory, cs., works. lb. .17 - —
dense, cs., works.....lb. .17 - —
translucent, pastels, cs., works..lb. .17 - —
transparent, colorless, cs., works. lb. .19 - —
colors, cs., works.....lb. .17 - —
shavings, opaque, amber, cs., works. lb. .15 - —
mixed colors, cs., works.....lb. .14 - —
white, cs., works.....lb. .17 - —

Q

Quassia chips, bls.....lb. .07 - .09
Quebracho extract, clarified, grd., bgs., c.l., basis 70% tannin..lb. .13½- —
liq., bbls., works, basis 35% tannin..lb. .06⅜- —
tanks, same basis.....lb. .06 - —
powd., bgs., c.l., basis 70% tannin..lb. .14½- —
ordinary, lump, bgs., c.l., ex dock in bond, basis 63% tannin. lb. .0821- .0850

Quebracho extract prices are based on $20 freight and $1 insurance per long ton.

Queen of the meadow root bgs.....lb. .12 - .13
Quercitron crystals bbls.....lb. .32 - —
Extract, No. 1, bbls.....lb. .14 - —
solid, bxs.....lb. .27 - —
Quicksilver, flasks (76 lbs. net)..flask. 81.00 -82.00
Quince seed, bgs.....lb. 1.30 - 1.75
Quinidine, NF, V, cryst., cns.....oz. No stocks
powd., precip., cns. .....oz. No stocks
Sulphate, USP, cns.....oz. .95 - 1.15
Quinine, NF, cns., 100 ozs.....oz. .97½- —
Acetate, cns., 100 ozs.....oz. No stocks
Arsenate, cns., 100 ozs.....oz. No stocks
Arsenite, cns., 100 ozs.....oz. No stocks
Bisulphate, USP, cns., 100 ozs....oz. .73½- —
Citrate, cns., 100 ozs.....oz. No stocks
Dihydrobromide, bots., 50 ozs....oz. No stocks
Dihydrochloride, USP .....oz. .99½- —
Ethylcarbonate, NF, cns., 100 ozs.oz. No stocks
Ferrocyanide, cns., 100 ozs.....oz. No stocks
Formate, cns., 100 ozs.....oz. No stocks
Hydrobromide, NF, cns., 50-oz. cans. oz. .89½- —
Hydrochloride, USP, cns., 100 ozs.oz. .89½- —
Hydrochlorosulphate, cns., 100 ozs.oz. No stocks
Hydriodide, cns., 100 ozs.....oz. No stocks
Hypophosphite, cns., 100 ozs.....oz. No stocks
Phosphate, NF, cns., 100 ozs.....oz. 1.03½- —
Salicylate, NF, cns., 100 ozs.....oz. .92½- —
Sulphate, USP, cns., 100 ozs.....oz. .80½- —



DRAUGHT OR PACKAGE:

Which is more profitable to the brewing industry?

The year was 1935.

Beer had just been successfully packaged in cans. The cans were trade-marked "Keglined."

And here was how the beer market split up at that time: *75% was sold and consumed in taverns; 25% was packaged for consumption in the home.*

Twelve years slipped by, while the country changed from a depression to defense preparation, to four years of successful war, and back to peacetime reconversion.

And here is how the beer market now splits up in the fall of 1947: *33% is draught and 67% is packaged for home consumption.*

To the brewer the interesting aspect of this change is that his package business is the more profitable end. It affords better brand identification. It is a trend that began with the introduction of that easy-to-take-home package, cans trade-marked "Keglined."

We wish we could claim that even half the home-beer business was in the package we invented. We can't. But we do maintain that our beer can encouraged the wholesome habit of drinking beer at home. Here's the reason we think so.

It's light to carry. You don't have to return it. It saves refrigerator space. It keeps beer at its best. It's easy to discard when empty.

So, it helped switch the brewer's sales from mostly draught to mostly "home"—the more profitable end of the beer business.

We think, therefore, you'll agree that people who do business with Canco profit. And we'd like the opportunity of bringing our packaging know-how to bear on your container problems. To increase your business. To increase your profit.

AMERICAN CAN COMPANY CANCO New York • Chicago • San Francisco

Quinine Sulphocarbolate—Soda Ash, Dense

Quinine sulphocarbolate, cns., 100 ozs. oz. No stocks
Tannate, USP X, cns., 100 ozs....oz. No stocks
Tartrate, cns., 100 ozs.....oz. No stocks
Valerate, NF IV, 100 ozs.....oz. No stocks
Quinine-urea hydrochloride, NF, cns.oz. .94½- —
Quinolin, dms., c.l., works.....lb. .32 - .50

R

R salt, dry, bbls.....lb. .71 - .72
paste, dms.....lb. .57 - —
Red, alizarin lake, bbls., dlvd. N. of Tenn., and N. C., E. of Miss., including St. Paul, Minneapolis, Davenport, Rock Island, St Louis..lb. 1.45 - 2.25

Prices ½c. per lb. higher dlvd. Ala., Fla., Ga., La. (Shreveport, 1½c.), Miss., N. C., S. C., Tenn., Tex. (Dallas, Ft. Worth, 1½c.), (El Paso, 2c.), Cedar Rapids, Des Moines, Kansas City, Lincoln, Omaha, St. Joseph, 1.6c. per lb. higher, dlvd. Pacific coast prices equaled with Chicago, dlvd. Denver, Pueblo, Salt Lake City, Wichita.

Cadmium lithopone, deep shade, bbls., frt. alld. E. of Rockies..lb. 1.25 - —
light shade, bbls., same basis. lb. 1.10 - —
Maroon, bbls., same basis.....lb. 1.35 - 1.45
medium shade, bbls., same basis. lb. 1.20 - —
medium-light shade, bbls., same basis..lb. 1.15 - —
orange-red, bbls., same basis. lb. 1.05 - —
Red cadmium lithopone, all shades, in smaller pkgs. 5c. per lb. higher; all prices are 1c. per lb. higher ex whse., Los Angeles and San Francisco.

Red, carmine, No. 40, dms., works..lb. 5.50 - 5.65
smaller containers, works.....lb. 6.10 - 6.15
Crocus martis (see Red, purple, oxide).
Dyes (see Dyes, coaltar).
Eosin toner, bbls., works.....lb. 1.35 - —
Indian, dom., pure, bgs., Bethlehem, Easton, E. St. Louis, N. Y.. lb. .10 - .16½
English, all shades.....lb. .16 - —
Iron oxide, synth., bbls.....lb. .10½- .10⅝
reduced, 85% copperas oxide, bbls., l.c.l., Bethlehem, Pa., Copley, O., Easton, Pa., E. St. Louis, and Trenton, N. J. lb. .06¾- —
80% copperas oxide, bbls., same basis..lb. .085 - .094
Lake C toner, alizarin, bbls., works lb. 1.05 - —
Lithol toner, bbls., works.....lb. .75 - .77
Lithol-rubin toner, alizarin lake, bbls., works..lb. 1.30 - —
Maroon, alizarin lake, 25%, kgs., works..lb. .40 - .43
toner, bbls., works.....lb. 1.35 - 1.50
Cadmium, deep, bbls., works..lb. 1.20 - —
regular, bbls., works.....lb. 1.10 - —
MNPT toner, kgs., works.....lb. 3.25 - —
Maroons in smaller pkgs., 5c. per lb higher.
Mercury oxide, tech., bbls., 10,000 lbs., works..lb. 2.30 - —
smaller lots, works.....lb. 2.32 - —
Metallic, bbls., works.....lb. .02½- .02¾
Oxide (see Red, iron oxide).
Oxide, Persian gulf, bgs., works..lb. .06¾- —
Red, para toner, bbls.....lb. .85 - .88
chlorinated, kgs.....lb. .96 - 1.05
concentrated, alizarin lake, kgs., works..lb. .80 - —
Phloxin toner (see Red, eosin toner).
Phosphotungsic, rhodamine Y, kgs., works..lb. 4.45 - —
Pink lake, alizarin, bbls., works..lb. .20 - .25
Purple lake, kgs.....lb. 1.35 - —
Rose lake, alizarin, bbls., works..lb. .25 - .28
Scarlet ink toner, kgs., works..lb. .55 Nom.
Spanish oxide, grade I, c.l., bbls..lb. .05¼- .06¼
Toluidin toner, alizarin lake, kgs., works..lb. 1.30 - —
Turkey, bbls., works.....lb. .14½- —
Tuscan, bbls., E. St. L.....lb. .21 - .23
Venetian, 15%, bgs., works.....lb. .0310- —
20%, bgs., works.....lb. .0320- —
25%, bgs., works.....lb. .0350- —
30%, bgs., works.....lb. .0380- —
35%, bgs., works.....lb. .0415- —
40%, bgs., works.....lb. .0440- —
Vermillion, Amer., bbls.....lb. .22½- .48
Quicksilver, bbls.....lb. 2.50 - 2.65
Red precipitate, NF, powd., fib. dms. lb. 2.48 - 2.50
Red saunders wood, grd., bbls.....lb. .35 - —
Resorcinol, tech., dms., works.....lb. .68 - —
USP, cryst., dms., works.....lb. 1.70 - —
Rhatany root, bgs.....lb. .11 - .12
Rhubarb root, whole, cs.....lb. .80 - .85
powd., bbls.....lb. .90 - .95
Riboflavin, bots.....kilo.150.00 - —
Rice bran concentrate, dms., Cedartown, Ga., or Emeryville, Calif.lb. .79 - —
Rochelle salt, gran., powd., bbls., 5,000 lbs..lb. .34½- —
smaller lots.....lb. .35 - —
Rose flowers, pale, bls.....lb. .24 - .26
Rosemary flowers, bls.....lb. 1.55 - 1.65
Leaves, French, bls.....lb. .13 - .13½
Portuguese, bls.....lb. .07½- .08
Spanish, bls.....lb. .13 - .13½

Rosin, gum (see Naval Stores, Protective Coatings market),
Wood, B, dms., c.l., works..100 lbs. 4.50 - —
FF, dms., c.l., works.....100 lbs. 6.50 - —
G, H, I, dms., c.l., works..100 lbs. 7.30 - —
K, dms., c.l., works.....100 lbs. 7.30 - —
M, dms., c.l., works.....100 lbs. 7.30 - —
N, dms., c.l., works.....100 lbs. 7.35 - —
WG, dms., c.l., works.....100 lbs. 7.35 - —
WW, dms., c.l., works.....100 lbs. 7.40 - —
X, dms., c.l., works.....100 lbs. 7.50 - —
Rotenone, bbls., works.....lb.20.00 -24.00
Extract, liq., dms., works..per unit. 1.75 - —
Powder (see Cube root).
Rottenstone, bgs., c.l., mines....ton.36.00 - —
l.c.l., mines.....ton.43.00 - —
Rue herb, bls.....lb. .45 - .48
Rutin, bots.....gram. .28½- .60

S

Sabadilla seed, powd., bbls.....lb. .72 - .75
activated ground with lime, bbls.lb. .42 - .50
Saccharin, insoluble and soluble, dms., 1,000 lbs. ..lb. 1.30 - 1.90
smaller lots.....lb. 1.40 - 2.50
Safflower (see Saffron, Mexican).
Saffron, Mexican, bls.....lb. 1.55 - 1.60
Spanish, USP, tins.....lb.36.00 -38.00
boxes.....lb.31.50 -32.00
Safrol, cns.....lb. .95 - 1.45
Sage, Cyprian, bls.....lb. .14 - .14½
futures, bls.....lb. .14½- .15
Dalmatian, bls.....lb. .29 - .29½
Greek, fancy, bls.....lb. .12 - .12½
Palestine, bls.....lb. .16 - .16½
Spanish, bls.....lb. .13½- .14
Sago flour, bgs.....lb. .08½- .08¾
Salicin, bots.....lb. No stocks
cns.....lb. No stocks
Saligenin, dms., works.....lb.15.00 -20.00
Salol, gran., bbls., kgs.....lb. 1.00 - —
fib. dms.....lb. 1.02 - 1.03
Powdered salol, 10c. higher.
Salt, rock, bgs., c.l.....ton.17.50 - —
l.c.l.....ton.21.70 - —
Table, vacuum, common, fine, bgs., c.l..ton.18.60 - —
l.c.l.....ton.25.10 - —
Saltcake, dom., bulk, works.....ton.20.00 -26.00
Chrome (see Chrome cake).
Saltpeter, cryst., bbls., 10 tons, 100 lbs.12.40 - —
smaller lots.....100 lbs.12.65 -12.90
gran., bbls., 20 tons.....100 lbs. 8.00 - —
smaller lots.....100 lbs. 9.00 - 9.50
powd., bbls., 20 tons.....100 lbs. 9.00 - —
smaller lots.....100 lbs.10.00 -10.50
Saltpeter in bags is 25c. per 100 lbs. less than in barrels; in kegs it is $1 more.
Sanguinarine nitrate, bots.....oz. 4.75 - 5.50
Santonin, cryst., powd., cns.....kilo.175.00 -185.00
Saponin, No. 1, cns.....lb. 1.75 - 1.90
No. 2, cns.....lb. 1.40 - —
Sarsaparilla root, dom., bls.....lb. .45 - .50
Honduras, bls.....lb. .60 - .61
Mexican, bls.....lb. .57 - .60
Sassafras bark, ord., bls.....lb. .45 - .50
select, bls.....lb. .65 - .70
Savory, French, bls.....lb. .21 Nom.
Saw palmetto berries, bgs.....lb. .23 - .24
Scammony resin, lump, cns.....lb. 1.30 - —
powd., cns.....lb. 1.35 - —
Root, bgs.....lb. .13 - .14
Schaeffer's salt, bgs.....lb. .60 - —
Seidlitz mixture, bbls., 5,000 lbs..lb. .27¾- —
smaller lots.....lb. .28¼- —
kegs, 5,000 lbs.....lb. .28¼- —
smaller lots.....lb. .28¾- —
Selenium, powd., cns., 10-lb. lots..lb. 2.10 - —
cs., 1,000-lb. lots.....lb. 2.00 - —
Senega root, bls.....lb. 2.00 - 2.50
Senna leaf, Alex., half-leaf, bls..lb. .26 - .27
siftings, bgs.....lb. .23 - .24
Tinnevelly, No. 1, bls.....lb. .22 - .24
No. 2, bls.....lb. .20 - .22
No. 3, bls.....lb. .18 - .20
Pods, bls.....lb. .53 - .54
Serpentaria root, bls.....lb. No stocks
Shellac, bleached, bonedry, bgs., 1,500-lb. lots..lb. .58½- —
bbls., 1,500-lb. lots.....lb. .59 - —
kgs., 1,500-lb. lots.....lb. .61 - —
refined, bgs., 1,500-lb. lots.....lb. .66½- —
bbls., 1,500-lb. lots.....lb. .67 - —
kgs., 1,500-lb. lots.....lb. .69 - —
bonedry shellac sales of less than 1,500 lbs., at following additions to prices:—1c., more for bgs., bbls., or kgs.
Lemon, No. 1, bgs.....lb. .63 - —
No. 2, bgs.....lb. .61 - —
Superfine, bgs., 10 lbs.....lb. .56 - —
TN, bgs., 10 lbs.....lb. .54 - —
Shellac in 1 to 9 bgs., 1c. more.
Silica, amorph., dry-grd. 325 mesh, bgs., c.l., Ill. works..ton.24.00 -40.00
l.c.l., works.....ton.29.00 - —
wet-grd., 320 mesh, bgs., c.l. works..ton.24.00 -40.00
l.c.l., works.....ton.29.00 - —
hard-quartz, 99½% 325 mesh, bgs., c.l., works..ton.20.00 - —
l.c.l., works.....ton.25.00 - —
140 mesh, bgs., c.l., works....ton.15.00 - —
l.c.l., works.....ton.20.00 - —
Tetrachloride, tech, dms., c.l., works..lb. .15½- —
l.c.l., works.....lb. .16½- .27
Silver bullion, ingots, cs.....oz. .71⅝- —
Cyanide, cns.....oz. .59½- .59⅞
Nitrate, CP, cryst., bots., 2,500-oz. lots..oz. .45½- —
1,000-oz. lots.....oz. .46⅜- —
500-oz. lots.....oz. .47 - —
250-oz. lots.....oz. .47¼- —
USP granular silver nitrate, 2c. per oz. higher.
Proteinate, mild, USP, bots., dms., 1,000-oz. lots..oz. .45 - —
strong, bots., dms., 1,000-oz lots. lb. .40 - —
Simarubra bark, bls.....lb. .85 - .86
Skullcap herb Eastern, bls.....lb. .85 Nom.
Western, bls.....lb. .30 - .35
Skunk cabbage root, bls.....lb. .44 - .45
Slate flour, bgs., c.l., works.....ton.11.00 -12.00
l.c.l., ex whse.....ton.20.00 -60.00
Sloe berries, bgs.....lb. .39 - .40
Smalt, black, ctns.....lb. .11 - —
Blue, ctns.....lb. .16 - —
Snakeroot, Canada, bls.....lb. .63 - .65
Soapbark, bls.....lb. .24 - .25
crushed, bls., bbls.....lb. .32 - .33
cut, foreign, bbls.....lb. .32 - .34
powd., bbls.....lb. .30 - .31
Soda ash, dense, 58%, paper bgs., c.l., works..100 lbs. 1.38 - —
l.c.l., stock points, zone 1.....100 lbs. 2.73 - —
2.....100 lbs. 2.88 - —
3.....100 lbs. 3.23 - —
4.....100 lbs. 3.83 - —
bbls., c.l., works.....100 lbs. 1.78 - —
l.c.l., stock points, zone 1.....100 lbs. 3.13 - —
2.....100 lbs. 3.28 - —
3.....100 lbs. 3.63 - —
4.....100 lbs. 4.23 - —
bulk, c.l., works.....100 lbs. 1.18 - —

FROM SHELL CHEMICAL . . . in commercial quantities

TERTIARY BUTYL ALCOHOL

$CH_3-\overset{CH_3}{\underset{CH_3}{C}}-OH$

A high-purity alcohol completely miscible with water

SPECIFICATIONS	
Purity	Minimum 99% by wt.
Spec. Grav. 20/26°C	.781—.784
Color	Max. 10 plat. cobalt (Hazen) standard
Water	Miscible without turbidity with 19 vols. of 60° Be gasoline at 20°C
Acidity (other than carbon dioxide)	Maximum 0.003% as acetic acid
Distillation range	Below 81.5°C—None Above 83°C—None
Freezing Point (first needle)	Above 24°C
Non-volatile matter	Max. 2 mg per 100 ml

Consider the advantage of using high-purity TBA in your formulations:

AS A SOLVENT it is the most stable of all water-miscible alcohols toward oxidizing agents. It is miscible with most organic solvents such as ketones, alcohols, esters, ethers and aromatic and aliphatic hydrocarbons. TBA is used in compounding industrial cleaning preparations and as a denaturant for ethyl alcohol. Suggested applications include its use as an extraction and recrystallization solvent and in surface coatings where its high latent solvent power for cellulose acetate is an advantage.

AS AN INTERMEDIATE it finds application as an alkylating agent for introducing the tertiary butyl group into a variety of compounds useful in the manufacture of resins, pharmaceuticals and perfumes. Manufacturers of dyestuffs, flavoring extracts, insecticides, germicides and fungicides should also find Tertiary Butyl Alcohol a useful chemical raw material.

After evaluating this compound, you may find it a chemical suited to your most exacting requirements.

Among the many other products manufactured by Shell Chemical are Acetone, Mesityl Oxide, Allyl Alcohol, Methallyl Alcohol and Epichlorohydrin

Bulletin SC: 46-34 and other detailed information on Tertiary Butyl Alcohol, requested on your business letterhead, will be forwarded promptly.

SHELL CHEMICAL CORPORATION

100 Bush Street, San Francisco 6 • 500 Fifth Avenue, New York 18

Los Angeles • Houston • St. Louis • Chicago • Cleveland • Boston • Detroit

Soda ash, light, 58%, paper bgs., c.l., works..100 lbs. 1.30 - —
l.c.l., stock points, zone 1..... 100 lbs. 2.65 - —
2 .....100 lbs. 2.80 - —
3 .....100 lbs. 3.15 - —
4 .....100 lbs. 3.75 - —
bbls., c.l., works.....100 lbs. 1.70 - —
l.c.l., stock points, zone 1..... 100 lbs. 3.05 - —
2 .....100 lbs. 3.20 - —
3 .....100 lbs. 3.55 - —
4 .....100 lbs. 4.15 - —
bulk, c.l., works.....100 lbs. 1.10 - —

Soda ash prices f.o.b. stock points in zones indicated. Minimum quantity 500 lbs. For less than 500 lbs. prices are ex-warehouse. Sales zones are: (1) All States E. of Miss. R. and N. of south bound. of Ky. 31°, Tex. E. of 100°; S. of 31° Fla.; also Me., N. H., and Vt., in which there are special county zones; Davenport, Ia., and St. Louis; (2) Ark., E. of 98° Ga.; Iowa (except Davenport), Minn.; Mo. (except St. Louis), Neb. E. of 98°, N. C., S. C., Tenn. and Tex. N. of 31° and E. of 100° (except Wichita Falls); also Ala., La. and Miss. No. of 31°; (3) Ark. W. of 96°, Kans., Neb., W. of 98°, N. D., Okla., S. D., Tex., W. of 100° (including Wichita Falls excluding El Paso); (4) Ariz., Colo., Idaho, Mont., Nev., N. M., Utah, Wyo., and El Paso, Tex.

Caustic, flake, powd., 76%, dms., c.l., works..100 lbs. 3.25 - —
l.c.l., dlvd. zone 1.....100 lbs. 4.60 - —
zone 2.....100 lbs. 4.75 - —
zone 3.....100 lbs. 5.10 - —
zone 4.....100 lbs. 5.70 - —
liquid, 50%, sellers' tanks, works, dry basis..100 lbs. 2.25 - —
70%, sellers' tanks, works, dry basis..100 lbs. 2.35 - —
solid, 77%, dms., c.l., wks..100 lbs. 2.85 - —
l.c.l., dlvd. zone 1.....100 lbs. 4.20 - —
zone 2.....100 lbs. 4.35 - —
zone 3.....100 lbs. 4.70 - —
zone 4.....100 lbs. 5.30 - —

Prices f.o.b. stock points in zones indicated, minimum quantity 500 lbs; for less than 500 lbs., prices are ex-warehouse. Soda caustic zones are same as soda ash.

Sal, bgs., c.l.....100 lbs. 1.35 - —
works .....100 lbs. 1.10 - —
bbls., c.l. .....100 lbs. 1.40 - —
works .....100 lbs. 1.20 - —
Sodium acetate, anhyd., dms., dlvd..lb. .09½- .11
cryst., NF, bbls.....lb. .07½- .08½
Alginate, refined, water soluble, bbls., works. lb. .79 - —
semi refined, bbls. works.....lb. .42 - —
white, powd., dms. works.....lb. 1.50 - 1.60
Alkylbenzene-sulphate, dms., works, lb. .13 - —
Aluminate, for water treat., bgs., c.l., works..100 lbs. 7.60 - —
l.c.l., works .....100 lbs. 8.40 - —
other uses, bgs., c.l., works.100 lbs. 7.00 - —
l.c.l., works.....100 lbs. 7.50 - 8.00
Antimoniate, bbls., c.l., dlvd.....lb. .27 - —
l.c.l., dlvd.....lb. 27¾- —
Arsenate, dealers, dms., c.l., works, lb. 12 - —
l.c.l., works.....lb. 13½- .13¾
Arsenite, gray, dealers, dms., c.l., works..lb. .10¾- —
l.c.l., works .....lb. 13¼- .13¾

Sodium arsenite, gray, ¾c. higher in Chi., 2c higher in Houston, Tex., and Palo Alto, Calif.

Benzoate, tech., bbls. 2 tons .... lb. .39 - —
smaller lots.....lb. .40 - .41
USP, dms., 2 tons.....lb. .46 - —
smaller lots.....lb. .47 - .52
Bicarbonate, USP, gran., bgs..c.l., works..100 lbs. 2.25 - —
l.c.l., works.....100 lbs. 2.75 - —
powd., bgs., c.l., works...100 lbs. 1.85 - —
l.c.l., works.....100 lbs. 2.35 - —
Bichromate, bgs., c.l., works.....lb. .09 - —
l.c.l., works.....lb. .09½- .09⅝
Sodium bichromate, in bbls., ½c. higher.
Biduoride, bbls., c.l., frt. alld. E. lb. .11½- —
l.c.l., frt. alld.....lb. .13 - .14
kgs., l.c.l., frt. alld.....lb. .12½- .14
Bisulphite, powd., bbls., c.l., works, 100 lbs. 3.00 - 3.25
l.c.l., works .....100 lbs. 3.50 - 3.60
sofut. 32°, bbls., c.l., works..100 lbs. 1.30 - —
l.c.l., works.....100 lbs. 1.65 - —
35°, bbls., c.l., works....100 lbs. 1.40 - —
l.c.l., works.....100 lbs. 1.55 - —
40°, bbls., c.l., works.....100 lbs. 1.55 - —
l.c.l., works.....100 lbs. 1.80 - —
Borate (see Borax).
Bromide, USP, bbls., kgs., works, lb. .28 - —
Cacodylate, bots., dms.....lb. 8.50 -12.00
Carbonate (see Soda ash, Soda sal, Sodium monohyorate).
Chlorate, cryst., dms., c.l., works.lb. .06¾- —
l.c.l., works.....lb. .08 - —
powd., kgs., works.....lb. .08¼- —
Chloride (see Salt).
Chlorite, tech., dms., works.....lb. .75 - —
Chromate, bbls., dms., c.l., works..lb. .10⅝- —
l.c.l., works.....lb. .10¾- .11
Citrate, USP VIII, bbls.....lb. .20 - —
dms. .....lb. .21 - .26
USP XIII, gran., bbls.....lb. .26 - —
dms .....lb. .27 - .31

Sodium citrate, USP XIII, powd., prices ½c. higher.

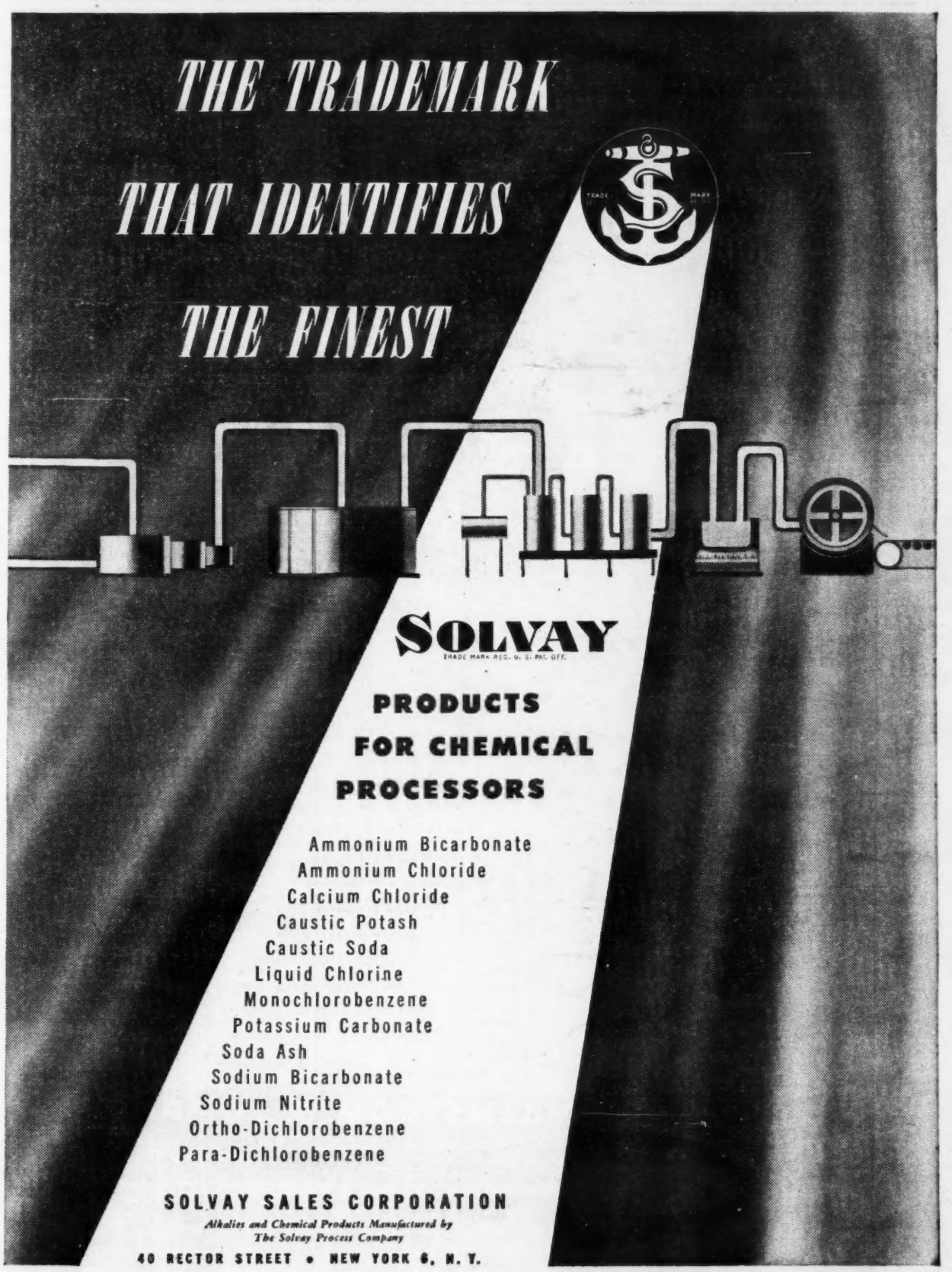
Cyanide, 96-98%, dms.....lb .14½- .15
Diacetate, 33-35% acidity, bbls., works, dlvd..lb. .09½- .10½
anhydrous dms., works.....lb. .11½- .13
Fluoride, white, 90%, bbls., c.l., works..lb. .09½- —
l.c.l. works.....lb. .09⅝- —
95%, bbls., c.l., works.....lb. .09⅞- —
l.c.l., works.....lb. .10 - —
Formate, bgs., c.l. works.....lb. .0696- .0650
l.c.l. .....lb. .07 - .0790
Glutamate, monobasic, kgs.....lb. 1.46 - 1.48
Glycerophosphate, NF, flake, bbls. lb. 1.90 - —
powder, bbls.....lb. 1.95 - —
solution 75%, cbys.....lb. 1.10 - —
50%, cbys.....lb. .85 - —
Hydrosulphide (see Sodium sulhydrate).
Hydrosulphite, dms., c.l., frt. alld.lb. .18½- .19
l.c.l., frt. alld.....lb. .19 - .20
Hydroxide tech. (see Soda, caustic).
USP, sticks, dms.....lb. .24 - .29
Hypophosphite, NF, cns.....lb. .67 - .70
Sodium hyposulphite, tech., cryst., bgs., c.l., works, frt. equald. 100 lbs. 2.75 - —
l.c.l., same basis.....100 lbs. 3.15 - —
pea cryst., bgs., works, frt. equald..100 lbs. 4.30 - 5.25
Soda, hyposulphite, crystals, in bbls., 40c. higher; pea crystals, dms., 50c. higher.
USP (see Sodium thiosulphate).
Iodide, USP, dms., jars.....lb. 2.72 - 2.83
Mandelate, dms. .....lb. 3.25 - 3.35
Metaborate, gran., bgs., c.l., works, ton.90.50 - —
l.c.l., works.....ton.108.00 -113.00
Sodium metaborate in bbls., $20 per ton higher
Metanilate, bgs. .....lb. .48 - —
Metasilicate, anhyd., bbls., c.l., works..100 lbs. 4.00 - —
gran., bgs., c.l., works....100 lbs. 3.00 - —
l.c.l. .....100 lbs. 3.90 - 4.25
bbls., c.l., works.....100 lbs. 3.40 - —
l.c.l. .....100 lbs. 4.30 - 4.75

Monohydrate, bgs., c.l., works. 100 lbs. 2.00 - —
l.c.l., works.....100 lbs. 2.45 - —
Naphthionate, bbls.....lb. .46 - .55
Nitrate, crude, dom., bgs., c.l., works..ton.40.50 - —
bulk, c.l., works.....ton.37.00 - —
Imp., 100-lb. bgs., c.l., Atl. Gulf, Pac. whse..ton.45.50 - —
bulk, c.l., same basis.....ton.42.50 - —
Nitrite, 99%, bbls, c.l., works, frt. equald..lb. .06¾- —
West coast ports....100 lbs. 8.00 - 8.05
l.c.l., dlvd.....100 lbs. 8.90 -11.00
Orthosilicate, anhyd., bbls., c.l., works, frt. equald.....100 lbs. 4.00 - —
l.c.l., same basis.....100 lbs. 5.45 - 5.80
hydrated, flake, bbls.,c.l., works. 100 lbs. 4.00 - —
l.c.l., works.....100 lbs. 5.10 - 5.35
Oxalate, neut., bgs., works.....lb. .10 - —
Pantothenate, dextrorotary, bots.gram. .10 -
Pantothenate, dextrorotary, bots.. gram. .10 - —
Pentachlorophenate, briquets, bgs., works, frt. equald..lb. .17 - .19
powd., bgs., c.l., same basis..lb. .16 - .16¼
l.c.l., same basis.....lb. .17 - —
kgs., l.c.l., works, frt. equald..lb. .19 - —
Perborate, USP, bbls., c.l., works..lb. .14¾- —
l.c.l., works.....lb. 15½- —
Peroxide, dms., c.l., dlvd. E. of Miss. lb. .14 - —
smaller lots, same basis.....lb. .17 - —
Phosphate, dibasic, tech., anhyd., bgs., c.l., works.....100 lbs. 6.25 - —
l.c.l., works.....100 lbs. 6.75 - 7.00
cryst., bgs., c.l., works..100 lbs. 3.50 - —
l.c.l., works.....100 lbs. 3.75 - 3.90
USP, dried, bbls., dms., works.lb. .159 - —

Soda Ash, Light—Sodium Sulphocarbolate

monobasic, anhyd., bgs., c.l., works. 100 lbs. 7.25 - 8.25
l.c.l., works.....100 lbs. 7.65 - 9.00
tribasic, anhyd., bgs., c.l., works, frt. equald. 100 lbs. 7.00 - —
l.c.l., same basis.....100 lbs. 7.50 - 8.00
cryst., bgs., c.l., works, frt. equald..100 lbs. 3.50 - —
l.c.l., same basis.....100 lbs. 3.90 - —
kgs., c.l., same basis.....100 lbs. 4.25 - —
l.c.l., same basis.....100 lbs. 4.45 - —
Sodium phosphates in bbls. 40c. higher than bgs.
USP (see Sodium phosphate, dibasic).
Prussiate, yellow, bgs.....lb. .12 - —
bbls. .....lb. .12¼- —
Pyrophosphate, acid, bgs., c.l., works, frt. equald..100 lbs. 10.50 -11.25
l.c.l., same basis.....100 lbs. 10.75 -12.00
ferric, dms., 10,000 lbs., works. lb. .22 - —
smaller lots, works.....lb .22½- —
tetrabasic, anhyd., bgs., c.l., works, frt. equald..100 lbs. 6.00 - —
Ricinoleate, tech., bbls. .....lb. No stocks
Salicylate, dms.....lb. .57 - .60
Sesquicarbonate, bgs., c.l., works. 100 lbs. 1.60 - —
bbls., c.l., works.....100 lbs. 1.80 - —
l.c.l., dlvd. zone 1.....100 lbs. 2.70 - —
zone 2.....100 lbs. 2.85 - —
zone 3.....100 lbs. 3.10 - —
zone 4.....100 lbs. 3.50 - —
Sodium sesquicarbonate l.c.l. price zones are same as those for soda ash.
Sesquisilicate, bbl., c.l., works. 100 lbs. 3.90 - —
l.c.l., dlvd .....100 lbs. 5.15 - 5.30

Soda silicate, 40°, turbid, dms., c.l., works..100 lbs. .95 - 1.15
l.c.l., works.....100 lbs. 1.20 - 1.30
tanks, works.....ton.15.00 - —
52°, turbid, dms., c.l., works, 100 lbs. 1.55 - —
l.c.l., works.....100 lbs. 1.80 - 2.00
tanks, works .....ton.27.00 - —
Silicofluoride, bbls., c.l., works....lb. .07½- —
l.c.l., works. .....lb. .08½- —
Stannate, dms., works, frt. alld. E..lb. 43½- 47½
Stearate, bbls. works.....lb. .19 - 24
Sulphate, NF VII, dried, powd., bbls..lb. 10 - 10½
tech., anhyd., bgs., c.l., works. 100 lbs. 2.10 - —
l.c.l., works.....100 lbs. 2.35 - 2.60
cryst. (see Glauber's salt)
USP, cryst., gran., bbls.....lb. 07 - 07½
Sulphide, cryst., bbls., c.l., works. 100 lbs. 3.75 - —
l.c.l., dlvd.....100 lbs. 4.15 - —
flake, bbls., c.l., works....100 lbs. 4.50 - 5.50
l.c.l., works.....100 lbs. 5.00 - 5.75
lump, bbls., c.l., works...100 lbs. 4.00 - 5.50
l.c.l., dlvd.....100 lbs. 4.50 - 5.75
Sulphite, cryst., bgs., c.l., works. 100 lbs. 2.60 - —
l.c.l., works.....100 lbs. 3.00 - —
bbls., c.l., works.....100 lbs. 3.00 - —
l.c.l., works.....100 lbs. 3.40 - —
powd., bbls., c.l., works....100 lbs. 5.25 - —
l.c.l., works.....100 lbs. 5.50 - 6.00
Sulphocarbolate, USP IX, gran., bbls., dms..lb. 28 - 33
powd., bbls. .....lb. 30 - 35



Sodium Sulphocyanide—Theocarbanilide

Sodium sulphocyanide, CP, dms....lb. .55 - .65
tech., dms., works....lb. .30 - —
Sulphoricinoleate, bbls. ....lb. .12 - —
Sulphydrate, flake, 70-72%, dms., c.l..lb. .05 - —
liquid, 45%, tanks, works...lb. .04¼- —
Thiocyanate (see Sodium sulphocyanide).
Tripolyphosphate, bgs., c.l., works, frt. equald..lb. .07¼- —
l.c.l. ....lb. .07¾- —
Thiosulphate, tech. (see Sodium hyposulphite).
USP, cryst., bbls.....lb. .10 - .12
Tungstate, tech., bgs.....lb. 1.45 - —
Sodium-ammonium phosphate, bbls., works, frt. equald..lb. .23 - —
Sodium-carboxymethylcellulose, high vis., ctns., 2,000 lbs., works frt. alld..lb. .66 - —
smaller quantities, same basis.lb. .70 - —
Low and med. vis., ctns., 2,000 lbs., same basis..lb. .62 - —
smaller quantities, same basis.lb. .66 - —
Sodium-cinchophen, bots., dms., works. lb. 5.00 - 5.10
Sodium-formaldehyde sulphoxalate, stand. cont..lb. .19 - .22
Sodium-sulpha drugs (see Sulpha name).
Solvent naphtha, coaltar, dms., works. gal. .28 - —
tanks, E. of Omaha, frt. alld. gal. .28 - —
W. of Minnequa, Colo., works. gal. .23 - —
high-flash, dms., works....gal. .32 - —
tanks, frt. alld. E. of Omaha to 2c. to 3½c. per gal..gal. .27 - —
Solvent, petroleum, 100° F. flash, tanks, Baytown, Tex..gal. .22 - —
150°F. flash, tanks, same basis, gal. .22 - —
Sorbitol, com'l, dms., c.l., works..lb. .25½- —
l.c.l., works ....lb. .26 - .35
Soybean flour, industrial, bgs., c.l., dlvd. E. of Rockies....lb. .068 - —
truckloads, same basis.....lb. .070 - —
smaller lots, same basis.....lb. .072 - —
Protein, bgs., 40,000 lbs., works lb. .25½- —
20,000 lbs., works....lb. 25¾- —
smaller lots, works....lb. .26 - .29½
Spearmint leaves, bls. ....lb. .45 - .49
Spikenard root, bls. ....lb. .50 - .55
Spruce extract, liq., reg., tanks, works. lb. .04¾- —
powd., super, bgs., c.l., works..lb. .05¼- —
Squaw vine, leaves, bls.....lb. .45 - .50
Squill, red, fortified, powd., bbls., boxs. lb. 1.00 - —
White, bls. ....lb. .10 - .12
powd., bbls., bxs.....lb. .16 - .20
St. Ignatius beans, bgs.....lb. No stocks.
St. John's bread, edible, bls.....lb. .12 - .18
Starch, corn, pearl, paper bgs., c.l. 100 lbs. 6.97 - —
Chicago ....100 lbs. 6.52 - —
l.c.l. ....100 lbs. 7.23 - —
powd., paper bgs., c.l.....100 lbs. 7.08 - —
Chicago ....100 lbs. 7.63 - —
l.c.l. ....100 lbs. 7.34 - —
Prices for corn starch in cotton bags, 17c. higher.
Potato, bgs., c.l.....lb. .08½- .0850
l.c.l. ....lb. .09¾- .09½
Rice, bgs., c.l.....lb. No stocks
Sweetpotato, bgs., c.l.....lb. No stocks
Wheat, bgs.....lb. .0720- .0775
Stavesacre seed, bgs.....lb. .60 - .61
Stearin, oleo (see Oleostearin).
Stillingia root, bls.....lb. .45 - .60
Stoneroot, bls.....lb. .07½- .08
Storax, USP, cs.....lb. 1.00 - 1.10
Stramonium leaves, bgs.....lb. .20 - .25
Seed, bgs.....lb. .20 - .21
Streptomycin, hospitals.....gram. 3.40 - —
wholesalers ....gram. 2.72 - —
Strontium bromide, NF, cns., dms. cs. .50 - .55
Carbonate, 90%, bbls ....lb. .14 - .16
98% bbls.....lb. .23 - .26
Chloride, tech., bbls.....lb. .22 - .24
Chromate, bbls., kgs., Phila.....lb. .40 - .42
Iodide, jars, 25 lbs.....lb. 3.00 - 3.06
Lactate, dms.....lb. 1.30 - 1.35
Nitrate, bbls., c.l., works.....lb. .07¾- —
l.c.l., works.....lb. .08¼- .08¾
Oxalate, bbls., works.....lb. .38 - .40
Salicylate, NF, dms.....lb. 1.25 - 1.32
Sulphate, air-floated, 90% 325 mesh, bbls., works..ton. 58.00 - —
Strontium-calcium sulphide, phosphorescent dms., worksalb. 2.50 - 2.85
Strophanthin, bots.....oz. 30.00 -50.00
Strophanthus seed, Kombe, bgs....lb. 2.25 - 2.30
Strychnine, NF, powd., cns., 100 ozs. oz. 1.25 - —
Sulphate, USP, powd., cns., 100 ozs. oz. 1.00 - —
Styrolyl acetate, bots.....lb. 2.50 - 3.10
Sucrose octa-acetate, denat., bbls., l.c.l., works..lb. .55 - —
tech., bbls., l.c.l., works.....lb. .50 - —
Sugar coloring (see Caramel coloring).
Sugar of milk (see Milk sugar)
Sulphadiazin, USP, dms., works...lb. 9.00 - 9.10
Sulphadiazin - sodium, USP, dms., works..lb. 10.50 -10.60
Sulphaguanidin, USP, dms., works, lb. 4.50 - 4.60
Sulphamerazin, USP, dms., works, lb. 9.00 - 9.10
Sulphamazerin - sodium, USP, dms., works..lb. 10.50 -10.60
Sulphanilamide, USP, powd., bots., works..lb. 1.05 - 1.10
Sulphanilamide, 30-60 mesh, 10c. higher.
Sulphapyridin, NF, powd., bots., tins, works..lb. 5.00 - 5.15
Sulphapyridin - sodium, powd., bots., dms., works..lb. 5.00 - 5.15
Sulphathiazole, USP, powd., dms., works..lb. 3.00 - 3.15
Sulphathiazole - sodium, USP, dms., works..lb. 3.00 - 3.15
Sulphonethylmethane, NF, kgs.....lb. 6.75 - 6.85
Sulphonmethane, NF, kgs.....lb. 5.25 - 5.35
Sulphur, crude, c.l., bulk, mines, contract..long ton. 16.00 -18.00
vessels, Gulf ports, contract, long ton. 19.50 - —
export ....long ton. 20.00 - —
flour, comm'l, 99½%, bgs., c.l., works..100 lbs. 1.80 - —
l.c.l., works.....100 lbs. 2.15 - —
precipitated, USP, bbls., kgs....lb. .18 - .30
refined, flour, extra fine, bgs., c.l., works..100 lbs. 3.15 - —
l.c.l., works.....100 lbs. 3.50 - 3.90
heavy, bgs., c.l., works..100 lbs. 2.85 - —
l.c.l., works.....100 lbs. 3.20 - 3.60
light, bgs., c.l., works....100 lbs. 2.95 - —
l.c.l., works.....100 lbs. 3.30 - 3.60
flowers, USP, bgs., c.l., works, 100 lbs. 3.50 - —
l.c.l., works.....100 lbs. 3.65 - —
Reined sulphur flowers in bbls., 35c. higher.
rocks, bgs., c.l., works....100 lbs. 2.45 - —
l.c.l., works.....100 lbs. 2.80 - —
roll, bbls., c.l., works.....100 lbs. 2.65 - —
l.c.l., works.....100 lbs. 3.00 - 3.40
rubbermakers', bgs., c.l., works, 100 lbs. 2.15 - 2.60
Sulphur chloride, 55-gal. dms., c.l., works..lb. .03¾- —
l.c.l., works.....lb. .04¼- —
10-gal. dms., c.l., works.....lb. .07¼- —
l.c.l., works.....lb. .08¼- —
Dioxide, liquid, com'l, cyls., works. lb. .085 - —
multi-unit cars, works.....lb. .06 - —
tanks, works.....lb. .044 - —
refrigeration, cyls., l.c.l., works. lb. — - —
Iodide, bots., jars.....lb. 3.90 - 4.11
Sumac bark, grd., bgs., ex dock..ton. 105.00 - —
Extract, No. 1, bbls.....lb. .10½- —
No. 2, bbls.....lb. .09 - —
crystals, bbls.....lb. .40 - —
stainless, bbls.....lb. .11 - .13½
Leaves, bgs., ex dock.....ton. 105.00 - —
Superphosphate run-of-pile, under 22% a.p.a. pulv., bulk, Baltimore..unit-ton. .76 - —
Florida ....unit-ton. .56 - .59
other points....unit-ton. .57 - .59
Delivery points, Ariz., Calif., Colo., Ida., Kans., Nev., N. M., Ore., Utah, Wash., 88½c. per unit-ton plus frt. charges from Anaconda, Mont., in excess of $18.03 per ton; guaranteed 18, 19 or 20% a.p.a., 1c. per unit-ton higher.
Triple, 48% or more, a.p.a., pulv., bulk..unit-ton. .71 - —
South Carolina....unit-ton. .75 - —
Tennessee ....unit-ton. .80 - —
Prices on 48% triple superphosphate in other states and D.C., 1c. per unit-ton plus frt. charges from E. Tampa, Fla. Superphosphate, gran., 2c. per unit-ton higher than pulverized.
Sweet basil, bls.....lb. 1.10 - 1.25

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Talc, dom., ordinary, grd., bgs., c.l., New York works..ton. 21.00 - —
l.c.l., works.....ton. 22.50 -24.50
Calif., bgs., c.l., works ....ton. 22.00 -30.00
Vermont, bgs., c.l., works..ton. 14.00 - —
l.c.l., works ....ton. 17.50 - —
fibrous, New York, off-color, grd., bgs., c.l., works..ton. 21.00 - —
l.c.l. ....ton. 26.50 -28.00
88.95-99.95%, grd., bgs., c.l., works..ton. 21.00 - —
l.c.l., works.....ton. 24.50 - —
98-99.5%, grd., bgs., c.l., works, ton. 25.00 - —
l.c.l., works ....ton. 30.00 - —
Imp., Canada, grd., bgs., c.l.....ton. 35.00 -45.00
Tallow, inedible, extra, loose.....lb. .21½- —
fancy, loose.....lb. .22 - —
special, loose.....lb. .21½- —
sulphonated, 25%, dms.....lb. .10 Nom.
50%, dms.....lb. .13 Nom.
Tamarinds, bbls. ....lb. .10 - .12
Tankage, animal, feeding, 9-11% ammon., bulk..unit-ton. 12.00 - —
Chicago ....unit-ton. 12.00 - —
fertilizer, 9% ammon., 10% b.p.l., Chicago..unit-ton. No stocks
10-11% ammon., 15% b.p.l., bulk bulk..unit-ton. No stocks.
Tansy leaves, bls. ....lb. .15 - .16
Tapioca flour, high grades, bgs.....lb. .08½- .09
medium grades, bgs.....lb. .07¾- .08
Java, bgs. ....lb. No stocks.
Tar acid oil, 15-18%, ret. dms., c.l., works..gal. .35 - —
l.c.l., works.....gal. .38 - —
25%, dms., c.l., works.....gal. .41 - —
l.c.l., works.....gal. .44 - —
Tar, coal (see Coaltar).
Pine (see Pinetar)
Tara pods, bgs., c.l., ex dock U. S. ports..long ton. No prices
powd., bgs., c.l., same basis.long ton. 225.00- —
Tarragon herb, bgs.....lb. .35 - .55
Leaves, bgs.....lb. .95 - 1.00
Tartar emetic, tech., gran., or powd., bbls., kgs..lb. .41 - —
dms. ....lb. .41½- .44
USP, powd., bbls., dms., kgs...lb. .45 - .48
Terpin hydrate, com'l, bbls., c.l....lb. .24½- —
l.c.l. ....lb. .25 - .25½
USP, cryst., bbls., dms.....lb. .70 - .75
powd., bbls., dms.....lb. .75 - .80
Terpineol, Alpha (see A)
com'l, dms., c.l., South.....lb. .13½- —
l.c.l., South.....lb. .14 - —
tanks, South.....lb. .13 - —
pure, dms ....lb. .40 - .56
extra, dms.....lb. .47 - .71
Terpineglycol ether, dms., c.l., works. lb. .19½- —
l.c.l., works.....lb. .20 - —
tanks, works.....lb. .19 - —
Terpinyl acetate, extra, cns., dms..lb. .80 - 1.10
prime, cns., dms.....lb. .61 - 1.00
Terra alba (see Gypsum).
Tetrachloroethane, dms., works.....lb. .08 - .08½
Tetrachloroethylene, USP, 55-gal. dms., works..lb. .20 - .21½
smaller dms., works.....lb. .23½- .25
tech. (see Perchloroethylene).
Tetraethyl orthosilicate, dms., works. lb. .65 - —
Tetraethylenepentamine, tanks, works. lb. .50 - —
Tetrapotassium phosphate (see Potassium phosphate).
Tetrasodium pyrophosphate (see Sodium pyrophosphate).
Thallium sulphate, 99%, bots., works. lb. 20.00 - —
Theobromine, bots., kgs.....lb. 5.15 - —
Thiamine hydrochloride, dms., 100 grams..kilo. 160.00 - —
Thiocarbanilide, dms. ....lb. .24 - —

FORMULA for Increasing YOUR Cosmetic Sales!

NIMCOL ABSORPTION BASES
for developing and improving
LIPSTICKS, CREAMS, LOTIONS, OINTMENTS

Cash-in on the ever-increasing consumer recognition and preference for cosmetics containing Lanolin. Give your Lipsticks, Creams, Lotions and Ointments the superior features and quality advantages of a custom-tailored NIMCOL Absorption Base.

The new MALMSTROM Formulation Service will help you develop or improve your cosmetics with a specially prepared NIMCOL Absorption Base formula that is *yours exclusively*. Each base is individually compounded to give your product beneficial sales-appealing characteristics, and can readily be incorporated into your processing operations. Directed by an internationally known cosmetic chemist, this new MALMSTROM Formulation Service *is at your service*, to help improve your products and increase their sales. Your inquiry is invited, strict confidence assured.

MALMSTROM NIMCO WOOL FAT & LANOLIN

N. I. MALMSTROM & COMPANY
America's Largest Processor of Wool Fat & Lanolin
147 LOMBARDY STREET, BROOKLYN 22, N. Y. • 30 WEST WASHINGTON STREET, CHICAGO 2, ILLINOIS
Office and Warehouse

SALES AGENTS
FULLER ASSOCIATES, Cleveland 14, Ohio
COMMERCIAL CHEMICALS, INC., Buffalo, N. Y.
E. K. MASKELL, Detroit, Michigan
GRIFFIN CHEMICAL CO., San Francisco, Calif., Los Angeles, Calif.

Thiouracil, dms., works.....lb. 5.50 - 6.00
Thiourea, tech., dms., works.....lb. .40 - —
Thorium nitrate, cs., works.....lb. 3.00 - —
Thyme, French, bgs. .....lb. No stocks
futures, bgs.....lb. .19½- .20
Spanish, bls.....lb. .11½- .12
Thymol, USP, cns.....lb. No prices
Iodide, NF, dms.....lb 3.55 - 4.25
Timbo root (see Cube root).
Tin crystals, bgs., bbls., works... lb. .55 - 60
Metal, Bolivian.....lb. .80 - —
Straits .....lb. .80 - —
Oxide, bbls. .....lb. .80 - 82
Tetrachloride, anhyd., dms., works, lb. 50 Nom
Titanium dioxide, anatase, chalk-resistant, bgs., c.l., dlvd.....lb. 16½- —
l.c.l., dlvd. .....lb. 17 - 17½
plain, bgs., c.l., dlvd.....lb. 16½- —
l.c.l., dlvd.....lb. 17½- —
rutile, nonchalking, bgs., c.l., dlvd. E..lb. .18½- —
l.c.l., dlvd E.....lb. .19 - .19½
Hydride, cns., works.....lb. 7.00 - 8.00
Pigment, barium base, bgs., c.l., dlvd..lb. .03½- —
l.c.l., dlvd.....lb. .07 - —
Calcium base, bgs., c.l., dlvd..lb. .06¼- —
l.c.l., dlvd.....lb. .06¾- —
Calcium-rutile base, bgs., c.l., dlvd. lb. .06½- —
l.c.l., dlvd .....lb. .06¾- —
Magnesium base, bgs., c.l., dlvd...lb. No prices
l.c.l., dlvd.....lb. No prices
Titanium dioxide and pigment in bbls., ¼c. higher; Pac. coast, c.l., dlvd., l.c.l., ex whse., ½c. higher.
Tetrachloride, CP, 55-gal. dms., works..lb. .57 - —
smaller, pkgs., works.....lb. .65 - 1.22
technical, 55-gal. dms., works..lb. .32 - —
smaller pkgs., works.....lb. .40 - 1.60
Tolu balsam, cns. .....lb 3.60 - 3.70
Toluene (see Toluol).
Tolidin base (see Orthotolidin).
Toluol (toluene) 2° indust., ret. dms., works..gal. 28 - —
tanks, E. of Omaha, frt. alld..gal. 23 - —
W. of Minnequa, Colo., works. gal. 23 - —
Prices on 2° toluol from petroleum, tanks delivered (maximum freight allowance in parentheses), are:—Ark., 2¾c.; Chicago, 23c. (2¾c.); Del.-Md.-D. C., 23c. (2¾c.); Detroit, 23c. (1 5/10c.); La., 23c.; N. E., 23c. (2¼c.); N. J., 23c.; N. Y., 23c.; E. Tenn & N. C., 25c. (5c.); Pa., 23c. (2¾c.); S. C., 23c.; W. Tenn., 23c. (3¾c.); Va., 24c. (3½c.); W. Va., 23c. (2¾c.).
1° nitration, ret. dms., works....gal. .28 - —
tanks, E. of Omaha, frt. alld..gal. 23 - —
W. of Minnequa, Colo., works.gal. 23 - —
Tonga, 50% bark and vine, bls.....lb. 90 - 91
Tonka beans, Angostura, cks.....lb. 1.70 - 1.80
Brazilian, cs. .....lb. .85 - 90
Surinam, cs. .....lb. .85 - 90
Totaquine, USP, 100-oz. lots.....oz. .52 - —
Triacetin, dms., works.....lb. .40½- —
Triamylamine, dms., c.l., works....lb. .98 - —
l.c.l., works .....lb. 1.01 - —
Triamyl citrate, dms.....lb. .41 - .50
smaller pkgs.....lb. .52 - .56
Phosphate, dms., l.c.l., frt. alld., E. of Rockies..lb 68 - —
smaller pkgs .....lb. .72 - .74
Tributyiamine, dms., c.l., works..lb. .78 - —
l.c.l., works .....lb. .81 - —
tanks, same basis.....lb. 07½- 09¼
Trichlorobenzene, dms., c.l., works, frt. alld. or equald..lb. 08½- 11
l.c.l., same basis.....lb. 09½- 12
Trichloroethane, dms., c.l., works..lb. .15 - —
l.c.l., works.....lb. .17 - —
Trichloroethylene, tanks, c.l., frt. alld., zone 1..lb. .09¾- —
zone 2 .....lb. .10½- —
zone 3 .....lb. .11 - —
zone 4 .....lb. .11 - —
Trichloroethylene dm., c.l. prices ½c. higher; l.c.l. 1¼c. higher. Zones are—(1) Conn., Del., Ill., Ind., Ia., Ky., Me., Md., Mass., Mich., Minn., Mo., N. J., N. Y., N. C., Ohio, Pa., R. I., Tenn., Vt., Va., W. Va., Wis., Omaha, K. C., Kan.; (2) Ala., Ark., Fla., Ga., Kan., La., Miss., Neb., N. D., Okla., S. C., S. D.; (3) Col., Mont., (E), N. M., Tex., Wyo.; (4) Ariz., Cal., Idaho, Mont. (W), Nev., Ore., Utah, Wash.
Tricresyl phosphate, coaltar, dms., c.l., dlvd..lb. .32¼- 33
l.c.l., dlvd.....lb. .33 - 33¼
tanks, dlvd. .....lb. .31 - 32
petroleum, dms., c.l., dlvd.....lb. .37 - —
l.c.l., dlvd.....lb. .37½- —
tanks, dlvd.....lb. .36 - —
Triethanolamine, dms., c.l., frt. alld. E..lb. .20½- —
l.c.l., same basis.....lb. .21½- —
smaller containers.....lb. .24½- —
tanks, same basis.....lb. .19 - —
Triethyl citrate, dms.....lb. .34 - .42
smaller pkgs.....lb. .45 - —
Phosphate, dms., works, c.l.....lb. .38 - —
dms., l.c.l., same basis.....lb. .39 - —
tanks, same basis.....lb. .37 - —
Triethylamine, dms., c.l. works, basis 100%..lb. .34 - —
l.c.l., works, basis 100%.....lb. .36 - —
tanks, works, basis 100%.....lb. .30 - —
Triethyleneglycol, dms., c.l., frt. alld. E..lb. .18½- .19
l.c.l., same basis .....lb. .19½- .21
tanks, same basis.....lb. .17½- —
Triethylenetetramine, tanks, works.lb. .50 - —
Trimethylamine, anhydrous, cyl., works, basis 100%..lb. .29½- 39¼
25%-40%, dms., c.l., works, basis 100%..lb. .29 - —
l.c.l., works, basis 100%.....lb. .29¼- —
tanks, works, basis 100%.....lb. .25 - —
Triphenyl phosphate, bbls., c.l., frt. alld..lb. .26 - —
l.c.l., frt. alld.....lb. .27 - —
Tripoli, air-floated, bgs., c.l., works.lb. 0175- —
double-grd., c.l., works.....lb. .016 - —
single-grd., bgs., c.l., works.....lb. .015 - —
Trisodium phosphate (see Sodium phosphate, tribasic).
Tuba root (see Cube root).
Tungsten metal, powd., 98.9%, dms., works..lb. 2.83 Nom.
Oxide, kgs., works.....lb. 4.75 Nom.
Turmeric root, Alleppey, bls.....lb. .22 - .22½
Haitian, futures, bls.....lb. .13 - .13½
Jamaica, futures, bls.....lb. .15½- .16
Madras, bgs.....lb. .19 - .19¼
Turpentine, gum (see Naval Stores, Protective Coatings market).
Sulphate, ret. dms., East.....gal. .65 - —
tanks, East .....gal. .40 - —
Turpentine, wood, dest.-dist., dms., incl., c.l., works, South..gal. .45 - —
l.c.l., same basis.....gal. .46 - —
N. Y. whse.....gal. .60 - —
steam-dist., dms. incl., l.c.l., East. gal. .76 - —
tanks, South .....gal. .55 - —

U

Unicorn root, false (see Helonias root).
True (see Aletris root).
Uranium oxide, black, bgs.....lb. 2.55 - —
yellow, kgs .....lb. 1.65 - —

Urea, dom., 46% N., bgs., c.l., works or ship. pts..ton.73.00 - —
l.c.l., bgs., ship. pts.....ton.75.50 - —
fertilizer comp., 42% N., bulk, c.l., works or Atlantic or Gulf ports. ton.73.00 - —
Urea-ammonia liquor (A and B), free ammonia content, Belle, W. Va., freight equalized with Hopewell, Va..ton.59.00 - —
fixed ammonia content, Belle, W. Va., freight equalized with Hopewell, Va..NH_3-ton.112.80 - —
C and D prices for Urea-ammonia liquor are $1.20 per ton of nitrogen higher than the A and B respectively for the same destinations.
Uva ursi leaves, bls.....lb. .13 - 14

V

Valerian root, Belgian, NF, bls...lb. .56 - 58
Indian, bls. .....lb. .40 - .41
Valonia beards, bgs., ex dock....ton.73.00 -75.00
Cups, bgs., ex dock.....ton.53.00 -54.00
Extract, powd., bgs., ex dock...lb. 10½- .10¾
Vanadium pentoxide, CP, bgs., cns., works..lb. 7.00 - —
tech., dms., works.....lb. 1.10 - —
Vanilla beans, Bourbon, tins.....lb. 7.75 - 8.50
Mexican, cuts, tins.....lb. 8.50 - 9.00
whole, tins.....lb.10.00 -11.00
Tahiti, tins .....lb. 4.00 - 4.25
Vanillin, ex eugenol, tins, 25 lbs....lb. 4.50 - —
smaller lots .....lb. 4.55 - 4.65
ex guaicol, tins, 25 lbs.....lb. 3.00 -
smaller lots.....lb. 3.05 - 3.15
ex lignin, dms., 25-lb. lots.....lb. 3.00 - —
tins, smaller lots.....lb. 3.05 3.15
smaller lots, tins.....lb 3.05 - 3.15
Venice turpentine, artif., cns.....lb. .24 - .25
Verdigris, bbls. .....lb. .28 - .29
Vinyl acetate, 55-gal. dms., works..lb. .16½- .17½
5-gal. cns., works.....lb. .30 - —
tanks, works.....lb. .15 - —
Trichloride (see Trichloroethane).
Vinylpyridin, ret. dms., works ...lb. 1.50 - —
Viosterol, bots., 100 billion USP units mill units .04 - —
1 billion USP units....mill units .05 - —
100 million USP units..mill units. .07 - —
Vitamin A (see Oils, codliver, fishliver).
A concentrate, dms., works.... mill. units. .36 - .40
B_1 (see Thiamine hydrochloride).
B_2 (see Riboflavin).
B complex, natural (see Rice bran and Yeast).
B_6 (see Pyridoxin).
C (see Acid, ascorbic).
D (see Oils, codliver and fishliver, Calciferol and Viosterol).
D_2 (See Calciferol).
E (see Alphatocopherol and Oil, wheatgerm).
G (see Riboflavin).
P-P (see Acid, nicotin, and Nicotinamide).
Violet, methyl, toner (see M).
V.M.P. naphtha (see Petroleum naphtha).

W

Wahoo root bark, bls.....lb. 1.75 - 2.00
Tree bark, bls.....lb. .45 - .50
Wattle bark, fair average, bgs., ex dock..ton.60.00 -71.00
merchantable, bags, ex dock..ton.66.00 -68.00
Wattle bark, extract, liquid, 35% tannin, bbls., works..lb. .06¾- .07¾
tanks, works .....lb. .06¼- 06¾
solid, E. Afr., 61% tannin, in bond, ex dock..lb. .08 - —
S. Afr., 62% tannin, in bond, ex dock..lb. .08 - —
Wattle extract prices based on $17 freight and $1 insurance per long ton
Wax, amorphous (see Wax, microcrystalline).
Bayberry, bgs. .....lb. No stocks
Bees, bleached, USP, white, cakes, cs..lb. .68 - .72
slabs, bgs.....lb. .67 - .70
crude, African, bgs.....lb. .45 - .49
Western hemisphere, bgs.....lb. .46 - .48
refined, yellow, bricks, cs.....lb. .54 - .56
slabs, bgs. .....lb. .53 - .55
Candelilla, crude, bgs.....lb. .62 - .63
refined, bgs. .....lb. .65 - .66
Powdered candelilla, 20 mesh, 5c. per lb. extra, 80 mesh, 5½c.; 100-200 mesh, 6c.
Carnauba, chalky, No. 3, bgs., ton lots...lb. .88 - .90
North country, No. 2, ton lots....lb. .94 - .95
No. 3, bgs., ton lots.....lb. .91 - .93
refined, bgs., ton lots.....lb. .96 - .98
yellow, No. 1, bgs., ton lots.....lb. 1.40 - —
No. 2, bgs., ton lots.....lb. 1.38 - —
Powdered carnauba price differentials same as powdered candelilla.
Ceresin, dom., 132°-136° m.p., bgs. lb. .16 - .16¼
138°-140° m.p., bgs.....lb. .18 - .18¼
158°-162° m.p., bgs.....lb. .20½- .21
Japan, bgs.....lb. .35 - .40

New Intermediate for Organic Synthesis

Suggested for the manufacture of condensation products for use in tanning and as emulsifying and wetting agents

N,N-Di (BETA HYDROXYETHYL) ANILINE

$N(CH_2CH_2OH)_2$

Mol. Wt: 181 MP: 52° C min
Color: light gray
Distillation Range: 165-175° C at 2 mm

SOLUBILITY at 20° C	
Water	3.3%
Ethyl Alcohol	completely miscible
Benzene	completely miscible
Diethyl Ether	23%
Petroleum Ether	insoluble

N,N-Di (Beta Hydroxyethyl) Aniline, now available in commercial quantities for the first time, offers many interesting possibilities as an intermediate in organic synthesis.

This chemical compound shows the typical properties of tertiary amines, including all the possible substitution reactions.

Because of the presence of the hydroxyl groups on the alkyl chains, unusual solubility characteristics are imparted to the various derivatives of N,N-Di (Beta Hydroxyethyl) Aniline. In addition, esterification and etherification of these hydroxyl groups are also possible.

This intermediate should be of particular interest to manufacturers of condensation products for use in tanning and, also, as emulsifying and wetting agents.

SEND FOR SAMPLE

TENNESSEE EASTMAN CORPORATION
(Subsidiary of Eastman Kodak Company)
KINGSPORT, TENNESSEE

Wax, Microcrystalline—Zinc-Iron Oxide

Wax, microcrystalline, 170°-175° m.p., ASTM, amber, ctns., 30 tons yearly contract, group 3 works..lb. .16 - —
smaller lots, same basis....lb. .16 - .17½
170°-175° m.p., ASTM, black ctns., 30 tons, same basis..lb. .14½- —
smaller lots, same basis....lb. .14½- .15½
white, ctns., 30 tons, same basis. lb. .27 - —
smaller lots, same basis.....lb. .27 - .29
190°-195° m.p., ASTM, amber, ctns., 30 tons, same basis. lb. .21 - —
smaller lots, same basis.....lb. .21 - .22
190°-195° m.p., ASTM, black, ctns., 30 tons, same basis..lb. .19½- —
smaller ctns., same basis....lb. .19½- .20½
white, ctns., 30 tons, same basis. lb. .34 - —
smaller lots, same basis.....lb. .34 - .35
Montan, crude, bgs.....lb. .45 - .47
Ouricury, crude, bgs., ton lots....lb. .62 - .65
refined, bgs., ton lots.....lb. .70 - .73
Ozokerite, dom., 180-190 m.p., bgs., c.l...lb. .36 - —
182-183 m.p., bgs., c.l.....lb. .31 - —
171-172 m.p., bgs., c.l.....lb. .27 - —
Spermaceti, blocks, cs.....lb. .421 - .461
cake, cs. .....lb. .432 - .472
White lead (see Lead, white).
White precipitate, powd., dms., 50 lbs. lb. 2.27 - —
White pine bark, rossed, bls.....lb. .18 - .19
Whiting, limestone, dry-grd., 325 mesh, bgs., 40 tons, St. Louis, works ton. 9.50 - —
smaller lots, St. Louis, works..ton.12.50 - —
wet-grd., air-floated, 99% 325 mesh, bgs., c.l.....ton.14.50 -27.50
98% 200 mesh, bgs., c.l....ton. No prices
90% 200 mesh, bgs., c.l....ton. No prices
Whiting, limestone, wet-grd., water-floated, extra gilders, bgs., c.l. ton.14.50 -28.00
gilders, bgs., c.l.....ton. No prices
putty grade, bgs., c.l.....ton.13.00 - —
surface treated, bgs., c.l. Ohio works..ton.30.00 - —
Paris white, bgs., c.l.....ton.25.00 -31.00
l.c.l. .....ton.25.00 -29.00
Precipitated, bgs., c.l.....ton.18.00 -20.00
l.c.l. .....ton.22.00 -25.00
Wild cherry bark, thick, bls.....lb. .06 - .07
thin, natural, bgs.....lb. .18 - .20
rossed, green, bls.....lb. .24 - .26
Wild indigo root, bls.....lb. .30 - .31
Witch hazel leaves, bls.....lb. .25 - .36
Witherite (see Barium carbonate, natural).
Woodflour, 40 mesh, bulk, c.l., works, East..ton.32.00 - —
l.c.l., same basis.....ton.40.00 - —
60 mesh, bulk, c.l., same basis..ton.37.00 - —
l.c.l., same basis.....ton.45.00 - —
80-100 mesh, bulk, c.l., same basis.. ton.40.00 -45.00
l.c.l., same basis.....ton.50.00 -55.00
Woodflour in bgs. extra, returnable.
Woolfat (see Lanoline).
Wormseed, American, bgs.....lb. .17 - .18
Levant, bgs. .....lb. 4.25 - 4.30
Wormwood, bls. .....lb. .60 - .69

X

Xanthorrhiza root, bls.....lb. .28 - .30
Xylene (see Xylol).
Xylenol, 5°-7°, ret. dms., c.l., works, frt. equald. ..lb. .19¼- —
l.c.l., same basis.....lb. .19¾- —
tanks, same basis .....lb. .18½- —
Xylenol fractions, ret. dms., c.l., same basis..gal. 1.30 - 1.31
l.c.l., same basis.....gal. 1.29 - 1.34
tanks, same basis.....gal. 1.20 - 1.25
Xylidins, mixed, dms.....lb. .38 - .38½
Xylol (xylene), indust., ret. dms., works..gal. .23 - —
tanks, E. of Omaha, frt. alld...gal. .23 - .25
W. of Minnequa, Colo., works. gal. .23 - —
10°, ret. dms., works.....gal. .30 - —
tanks, E. of Omaha, frt. alld...gal. .25 - .27

Prices on 10° xylol from petroleum, tanks, delivered (maximum freight allowances in parentheses), are:—Ark., 25c.; Del.-Md.-D. C., 25c. (2¾c.); Detroit, 25c. (1 8/10c.); La., 25c.; N. E., 25c. (2¼c.); N. J., 25c.; N. Y., 25c.; E. Tenn. & N. C., 27c. (5c.); Pa., 25c. (2¾c.); S. C., 27c.; W. Tenn., 27c. (3⅝c.); Va., 26c. (3½c.); W. Va., 25c. (2¾c.); the Chicago prices is 22c., f.o.b. terminal.

5°, ret. dms., works.....gal. .38 - —
tanks, E. of Omaha, frt. alld...gal. .33 - —
8°, ret. dms., works.....gal. .43 - —
tanks, E. of Omaha, frt. alld...gal. .38 - —

Y

Yara yara, cryst., bots., cns. ....lb. 1.62 - 1.75
Yeast, brewer's dry, 50 B units, dms..lb. .33 - —
50 B units, dms.....lb. .45 - —
200 B units, dms.....lb. .50 - —
300 B units, dms.....lb. .60 - —
Yellow, barium chromate, CP, bgs., l.c.l., dlvd. N. of Tenn. and N. C., E. of Miss., including Davenport, Minneapolis, Rock Island, St. Louis, St. Paul..lb. .32 - —

Barium chromate yellow price differentials in other States and city zones are those for chrome yellow below.

Yellow, benzidin, bbls., dlvd.....lb. 1.60 - —
Cadmium, CP, all shades, bbls., frt. alld. E. of Rockies..lb. 2.40 - —
Lithopone, all shades, bbls., frt. alld. E. of Rockies..lb. .85 - —

Cadmium yellows, Los Angeles and San Francisco, ex whse. 1c. per lb. higher.

Chrome, CP, bbls., dlvd. N. Tenn. and N. C., E. of Miss., including Davenport, Minneapolis, Rock Island, St. Louis, St. Paul, contracts..lb. .26 - —

Dlvd. Ala., Fla., Ga., La., (Shreveport), 1¼c. higher; Miss., N. C., S. C., Tenn., Dallas, Tex., 1¼c. higher; Ft. Worth, Tex., 1½c. higher; El Paso, Tex., 2c. higher; Cedar Rapids, Des Moines, Kansas City, Lincoln, Omaha, St. Joseph, 1.6c. higher dlvd. Pac. Coast; for Denver, Pueblo, Salt Lake City, Wichita prices are equalized with Chicago.

Hansa, bbls., same basis as chrome. lb. 1.60 - —
Primrose, bbls., same basis.....lb. 1.90 - —
Iron oxide, natural, bgs., c.l., works. lb. .01½- .02¾
l.c.l., works .....lb. .02¾- .03¾
French type, bgs., c.l.....lb. .04 - —
l.c.l. .....lb. .04½- —
Peruvian type, bgs., c.l...ton.27.00 -32.00
synth., bgs., c.l., works.....lb. .08¼- —
l.c.l., works.....lb. .08½- —
Mercury oxide, bbls., 1,000 lbs.....lb. 2.23 - —
smaller lots .....lb. 2.25 - —
Ocher, American, golden, bgs., works. lb. .01½- .02¾
Zinc, bbls., same basis as chrome..lb. .20 - —
Yellow dock root, bls.....lb. .23 - .25
Yellow xanthorrhiza (see Xanthorrhiza).
Yerba santa leaves, bls.....lb. .30 - .31
Yohimbine hydrochloride, vis.....oz. 3.25 - 4.00

Z

Zein, bgs., 1,000 lbs., works.....lb. .25 - —
smaller lots works.....lb. .30 - —
Zinc acetate, tech., bbls., dms.....lb. .20 - —
USP, bbls. .....lb. .26 - .27
kgs. .....lb. .27 - .29
Arsenite, bgs., c.l., frt. alld. E. of Rockies..lb. No stocks
l.c.l., same basis.....lb. No stocks
Carbonate, tech., rubber-makers' bbls., works..lb. .10¾- .11¼
USP, precip., powd., bbls.....lb. .35 - —
dms. .....lb. .40 - —
kgs. .....lb. .37 - —
Chloride, tech., fused, dms., c.l., works..100 lbs. 6.25 - —
l.c.l., works.....100 lbs. 6.55 - —
gran., bbls., c.l., works..100 lbs. 7.00 - —
l.c.l., works .....100 lbs. 7.40 - —
solution, 50%, dms., c.l., works lb. .0365- —
l.c.l., works.....lb. .0425- —
tanks, works .....lb. .0390- —
USP, gran., dms.....lb. .30 - .31
jars .....lb. .35 - .36
Chromate (see Yellow, zinc).
Cyanide, kgs., works.....lb. .34 - .35
Diethyldithiocarbamate, dms., works, lb. 1.15 - —
Dust, bbls., c.l., dlvd.....lb. .1250- .1260
l.c.l., dlvd. .....lb. .1275- .1300
Fluoride, bbls., works.....lb. .18 - .19
Hydrosulphite, dms., works.....lb. .16 - —
Iodide, NF, jars.....lb. 4.65 - —
Laurate, bbls.....lb. .45 - .46
Linoleate, solid, 9½%, bbls.....lb. .53¼- —
Metal slabs .....lb. .11 - —
E St. Louis.....lb. .10½- —
Naphthenate, liquid, 8% Zn, dms..lb. .19¾- —
10% Zn, dms.....lb. .24 - —
solid, 14% Zn, dms .....lb. .31¾- —
Oxide, pigment, dom., acicular, bgs., c.l., ship't point, frt. alld..lb. .10 - —
l.c.l., works.....lb. .10¼- —
American process, com'l lead-free, bgs., c.l., ship't point, frt. alld..lb. .10 - —
l.c.l., works.....lb. .10¼- —
leaded, 5%, bgs., c.l., ship't point, frt. alld..lb. .11¾- —
l.c.l., works.....lb. .10¼- —
35% or more, bgs., c.l., ship't ship't point, frt. alld. lb .11¾- —
l.c.l., works.....lb. .12 - —
50%, bgs., c.l., ship't point, frt. alld..lb. .12⅝- —
l.c.l., works.....lb. .12⅝- —
French process, com'l, lead-free, bgs., c.l., ship't point, frt. alld..lb. .12½- —
l.c.l., works.....lb. .12½- —
green, seal, bgs., c.l., ship't point, frt. alld..lb. .11¾- —
l.c.l., works .....lb. .12 - —
red seal, bgs., c.l., ship't point, frt. alld..lb. .11¼- —
l.c.l., works.....lb. .11½- —
white seal, bgs., c.l., ship't point, frt. alld..lb. .12¼- —
l.c.l., works.....lb. .12½- —
USP, ctns., c.l., ship't point, frt. alld..lb. .13½- —
l.c.l. same basis.....lb. .13¾- —

Zinc oxide Pac. coast prices ¾c. higher; bbls., prices ¼c. higher than bgs.

Resinate, fused, 9% Zn, powd., dms.lb. .19½- —
Silicofluoride, obls .....lb. .15 - .16
Stearate, ctns., 2,000 lbs.....lb. .47 - —
smaller lots.....lb. .48 - —
Sulphate, cryst., 22% Zn, bgs., c.l., works, frt. alld...100 lbs 4.15 - —
l.c.l., same basis.....100 lbs 4.90 - —
flake, 25½% Zn., bgs., c.l., same l.c.l., same basis.....100 lbs. 5.55 - —
powd., 36% Zn., bgs., c.l., same basis....100 lbs. 6.75 - —
l.c.l., same basis....100 lbs. 7.50 - —

Zinc sulphate in bbls., 40c. higher

Sulphide, pure, bgs., c.l., dlvd..lb. .10½- —
l.c.l., works .....lb. .10¾- —
Barium pigment, bgs., c.l., dlvd.lb. .07½- —
l.c.l., works.....lb. .07¾- —
Calcium pigment, bgs., c.l., dlvd lb. .07½- —
l.c.l., works.....lb. .07¾- —
Luminescent pigment, frt. alld...lb. 1.00 - 3.00
Magnesium pigment, bgs., c.l., dlvd lb. .07½- —
l.c.l., dlvd. .....lb. .07¾- —

Zinc sulphide and pigment, Pac. coast prices ¾c. higher; bbl. prices ¼c. higher than bgs.

Sulphocarbolate, NF, gran., bbls., dms..lb. .26 - .30
Yellow (see Yellow, zinc).
Zinc-ammonium chloride, bbls., c.l., works..100 lbs. 7.15 - —
l.c.l., works.....100 lbs. 7.55 - —
Zinc-cadmium sulphide, fluorescent, cns., frt. alld..lb. 2.00 - 2.80
Zinc-formaldehyde sulphoxalate, basic, dms., works, frt. alld.lb. .17 - —
normal, dms., works, frt alld.lb. .35 - —
Zinc-iron oxide pigment, bgs., c.l. dlvd..lb. .08½- —
Pac. coast.....lb. .09¼- —
l.c.l., dlvd. E. of Rockies....lb. .09 - —
Pac. coast.....lb. .09¾- —

When it Smells better ...It sells better!

• Hundreds of products that formerly were associated with disagreeable odors are now enjoying respectability and acceptance due to the art of industrial perfuming.

• Felton Chemists and Perfumers daily apply the practical science of industrial perfuming by combining the CORRECT PERFUME with a particular product to give it *Extra* Acceptance and *Extra* Saleability.

FELTON INVITES YOU TO SEND SAMPLES OF YOUR PRODUCTS FOR CORRECT PERFUMING TO CONVINCE YOU THAT

"When it smells better... it sells better"

DO YOU MAKE ANY OF THESE ITEMS?

- CLEANING FLUIDS AND NAPTHAS
- LUBRICATING OIL AND GREASE
- CUTTING OILS
- GLUES AND PASTES
- INSECTICIDES
- DISINFECTANTS
- LINOLEUM
- LATEX
- PRINTING INKS
- PAINTS, VARNISHES AND LACQUERS
- TEXTILES
- RUBBER
- FUR
- FEATHERS
- COTTON BATTING
- PLASTICS
- LAUNDRY STARCH
- TEXTILE FINISHING OILS
- WAXES
- LEATHER

Remember!
WHEN IT SMELLS BETTER... IT SELLS BETTER

FELTON
CHEMICAL CO., INC.
599 JOHNSON AVENUE, BROOKLYN 6, NEW YORK
Branches in Boston • Dallas • Philadelphia
San Francisco • Los Angeles • St. Louis • Chicago
Montreal • Toronto • Vancouver • Winnipeg

MANUFACTURERS OF AROMATIC CHEMICALS, ESSENTIAL OILS, PERFUMES AND FLAVORS

Zirconium acetate, solution, bbls., works..lb. .28½- —
Hydride, ens., works.....lb. 7.00 - 8.00
Nitrate, bgs., works.....lb. 3.00 - 4.00
Oxide, 88%, grd., bbls., c.l., works. lb. 22½- —
l.c.l. .....lb. .22½- —
98½%-99%, white, grd., bgs., works..lb. .80 - —
milled, electric-fused, bgs., 2,000 lbs., works.....lb. .46 - —
600 lbs. and less works..lb. .46½- .49
Oxychloride, cryst., bbls., 5 tons, works..lb. .29½- —
Sulphate, basic, cake, bbls., c.l., works. lb. .16 - —
l.c.l., works ..... lb. .18½- .20
smaller containers works...lb. .20 - .21½

Synthetic Resins
and
Branded Paint Materials
(Manufacturers' List Prices)

A

Abalyn (see methyl abietate in Current Market Quotations).
Aroclors, distilled, dms., c.l., works.lb. .18 - —
ton lots, works.....lb. .18½- —
single dms., works.....lb. .19 - —
undistilled, dms., c.l., works....lb. .15½- —
ton lots, works.....lb. .16 - —
single dms., works.....lb. .16½- —

B

Bakelite, B.R. 254, dms., c.l., frt. alld..lb. .38 - —
l.c.l., frt. alld.....lb. .38½- —
4036, c.l., frt. alld.....lb. .39 - —
l.c.l., frt. alld.....lb. .39½- —
3900, c.l., frt. alld.....lb. .41 - —
l.c.l., frt .alld.....lb. .41½- —
9432, c.l., frt. alld.....lb. .32 - —
l.c.l., frt. alld.....lb. .32½- —
17700, c.l., frt. alld.....lb. .34 - —
l.c.l., frt. alld.....lb. .34½- —
17620, c.l., frt. alld.....lb. .28 - —
l.c.l., frt. alld.....lb. .28½- —
9367, c.l., frt. alld.....lb. .25 - —
l.c.l., frt. alld.....lb. .25½- —
9476, c.l., frt. alld.....lb. .34 - —
l.c.l., frt. alld.....lb. .34½- —
8300, c.l., frt. alld.....lb. .37 - —
l.c.l., frt. alld.....lb. .37½- —
10282, c.l., frt. alld.....lb. .34 - —
l.c.l., frt. alld.....lb. .34½- —
14631, c.l., frt. alld.....lb. .34 - —
l.c.l., frt. alld.....lb. .34½- —
15775, c.l., frt. alld.....lb. .26 - —
l.c.l., frt. alld.....lb. .26½- —
2072, c.l., frt. alld.....lb. .25½- —
l.c.l., frt. alld.....lb. .26 - —
11544, c.l., frt. alld.....lb. .24½- —
l.c.l., frt. alld.....lb. .25 - —
302, c.l., frt. alld.....lb. .37 - —
l.c.l., frt. alld.....lb. .37½- —
2175, c.l., frt. alld.....lb. .38½- —
l.c.l., frt. alld.....lb. .39 - —
BV-1600, c.l., frt. alld.....lb. .39 - —
l.c.l., frt. alld.....lb. .39½- —
10673, c.l., frt. alld.....lb. .35 - —
l.c.l., frt. alld.....lb. .35½- —
XV-17656, c.l., frt. alld.....lb. .35 - —
l.c.l., frt. alld.....lb. .35½- —
BK-3962, c.l., frt. alld.....lb. .29 - —
l.c.l., frt. alld.....lb. .29½- —
16624, c.l., frt. alld.....lb. .29½- —
l.c.l., frt. alld.....lb. .30 - —
16302, c.l., frt. alld.....lb. .33 - —
l.c.l., frt. alld.....lb. .33½- —
XR-3180, c.l., frt. alld.....lb. .70 - —
l.c.l., frt. alld.....lb. .70½- —
4557, c.l., frt. alld.....lb. .72 - —
l.c.l., frt. alld.....lb. .72½- —
BJ-15408, c.l., frt. alld.....lb. .36½- —
l.c.l., frt. alld.....lb. .37 - —
16589, c.l., frt. alld.....lb. .39 - —
l.c.l., frt. alld.....lb. .39½- —
BR-17920, c.l., frt. alld.....lb. .49 - —
l.c.l., frt. alld.....lb. .49½- —
KRS-2, c.l., frt. alld.....lb. .50 - —
l.c.l., frt. alld.....lb. .50½- —

Prices are f.o.b. Bakelite corporation's plants or warehouses, minimum transportation charges prepaid on units of standard drums or over to destination in United States except as follows:—Add 1c. per pound to list prices for prepaid delivery to Arizona, California, Colorado, Idaho, Montana, Nevada, New Mexico, Oregon, Texas, Utah, Washington and Wyoming. Shipments made via customer's routing will be shipped transportation charges collect and allowance for minimum transportation charges will be credited on invoice covering materials shipped. No transportation charges allowed on shipments of any materials in less than standard drum quantities.

Beetle, 212-8, dms., c. l., frt. alld..lb. .40½- —
l.c.l., same basis.....lb. .41 - —
219-8, c.l., frt. alld.....lb. .29 - —
l.c.l., same basis.....lb. .29½- —
227-8, c.l., frt. alld.....lb. .29 - —
l.c.l., same basis.....lb. .29½- —
230-8, c.l., frt. alld.....lb. .34½- —
l.c.l., same basis.....lb. .35½- —
251-8, c.l., frt. alld.....lb. .31½- —
l.c.l., same basis.....lb. .32 - —
592-8, c.l., frt. alld.....lb. .30½- —
l.c.l., same basis.....lb. .31¼- —

C

Cellolyn 102, non-ret. dms., dlvd., c.l. lb. .20 - —
l.c.l., same basis.....lb. .20½- —
103, c.l., same basis.....lb. .21 - —
l.c.l., same basis.....lb. .21½- —
65, c.l., same basis.....lb. .28 - —
l.c.l., same basis.....lb. .28½- —
501, c.l., same basis.....lb. .306 - —
l.c.l., same basis.....lb. .311 - —
Cumar resin, DX, gross weight...lb. .05½- —
EX, gross weight.....lb. .05½- —
FX, gross weight.....lb. .06 - —
MH, Col. 1.....lb. .13 - —
1½-2 .....lb. .12 - —
2½-3½ .....lb. .11 - —
9 .....lb. .09 - —
MS .....lb. .11 - —
P, 10°-90°, C., col. 2½ and darker.lb. .11 - —
RH .....lb. .11 - —
RS .....lb. .11 - —
V col. ½.....lb. .14 - —
1 .....lb. .13 - —
1½-2 .....lb. .12 - —
2½ and darker.....lb. .11 - —
Cumar resin, W col. ½.....lb. .14½- —
1 .....lb. .13½- —
1½-2 .....lb. .12½- —
2½ and darker.....lb. .11½- —

All "P" grades with melting point below 50 degrees C., and grades AX and BX are shipped in steel drums. Grades CX, DX, EX and FX are sold on a gross weight basis. All other grades are sold on a net weight basis and are shipped in destructible metal drums, but their packaging is subject to change without notice. Prices are based on f.o.b. plant at Frankfort, Pa., freight equalized with Pittsburgh.

D

Dow resin 276 V-2 and V-9, 55-gal. drums, c.l., works..lb. .24 - —
l.c.l., same basis.....lb. .24½- —
5 and 10-gal drums, same basis lb. .50 - —
Dow Corning silicone resins DC-801, f.o.b. Midland, Mich., 5-10 gal. cans..gal.19.40 - —
50-50 gals., dms.....gal.18.65 - —
DC-802, 5-10 gals., same basis.gal.19.40 - —
50-50-gal. dms., same basis..gal.18.65 - —
DC-803, 5-10 gals., same basis.gal.15.70 - —
50-50-gal. dms., same basis..gal.15.10 - —
DC-804, 5-10 gals., same basis.gal.19.40 - —
50-50-gal. dms., same basis..gal.18.65 - —
DC-993, 50% solids, 5-10 gals., same basis..gal.15.50 - —
50-50-gal., dms., same basis.gal.14.90 - —
DC-993, 70% solids, 5-10 gals., same basis..gal.23.25 - —
50-50-gal., dms., same basis.gal.22.40 - —
DC-996, 5-10 gals., same basis.gal.15.50 - —
50-50-gal. dms., same basis..gal.14.90 - —
DC-2103, 5-10 gals., same basis.gal.18.80 - —
50-50-gal. dms., same basis. gal.18.10 - —

E

Ethocel, ctns, (50-lb.), 5,000 lbs. or more, frt. alld., 200 lbs., not to exceed $1.66 per cwt. up, works..lb. .52 - —
50-5,000 lbs., sames basis.....lb. .54 - —
less than 50 lbs.....lb. .62 - —

F

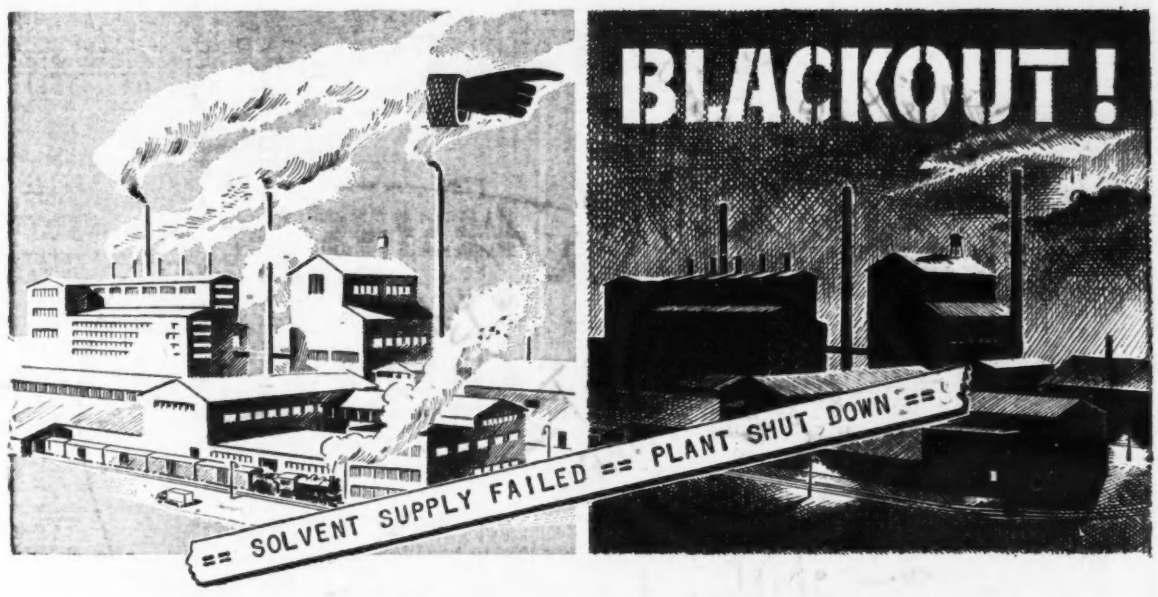
Falkyd A-2, 60% solids, dms. incl., c.l. lb. .27½- —
l.c.l., same basis.....lb. .28 - —
A-3, 50% solids, dms. incl., c.l....lb. .22½- —
l.c.l., same basis.....lb. .23 - —
Falkyd, A-3-LV, 50% solids, dms. incl., c.l..lb. .22½- —
l.c.l., same basis.....lb. .23 - —
A-4-IV, 40% solids, dms. incl., c.l..lb. .19 - —
l.c.l., same basis.....lb. .19½- —
A-4-D, 50% solids, dms. incl., c. l..lb. .23 - —
l.c.l., same basis.....lb. .23½- —
A-5-D, 70% solids, dms. incl., l.c..lb. .31½- —
l.c.l., same basis.....lb. .32 - —
*A-5-D, 100% solids, dms. incl., c.l.lb. .43½- —
l.c.l., same basis.....lb. .44 - —
A-6, 70% solids, dms. incl., c.l....lb. .32 - —
l.c.l., same basis.....lb. .32½- —
AA-6, 70% solids, dms. incl., c.l..lb. .32½- —
l.c.l., same basis.....lb. .33 - —
B-2, 60% solids, dms. incl., c.l....lb. .24½- —
l.c.l., same basis.....lb. .25 - —
B-2-8, 50% solids, dms. incl., c.l..lb. .21½- —
l.c.l., same basis.....lb. .22 - —
B-3, 50% solids, dms. incl., c.l....lb. .20 - —
l.c.l., same basis.....lb. .20½- —
B-34, 50% solids, dms. incl., c.l...lb. .20 - —
l.c.l., same basis.....lb. .20½- —
B-38, 50% solids, dms. incl., c.l....lb. .22½- —
l.c.l., same basis.....lb. .23½- —
B-41, 65% solids, dms. incl., c.l....lb. .24½- —
l.c.l., same basis.....lb. .24¾- —
*B-43-D, 100% solids, dms. incl., c.l.. lb. .35½- —
l.c.l., same basis.....lb. .36 - —
B-5, 85% solids, dms. incl., c.l....lb. .30 - —
l.c.l., same basis.....lb. .30½- —
B-666, 60% solids, dms. incl., c.l..lb. .23½- —
l.c.l., same basis.....lb. .24 - —
B-666, 70% solids, dms. incl., c.l..lb. .26½- —
l.c.l., same basis.....lb. .27 - —
BB-6, 70% solids, dms. incl., c.l....lb. .26½- —
l.c.l., same basis.....lb. .27 - —

Zirconium Acetate Solution—Flexalyn Resin

Falkyd, C-3, 50% solids, dms. incl., c.l. lb. .20½- —
l.c.l., same basis.....lb. .21 - —
C-5, 70% solids, dms. incl., c.l....lb. .24½- —
l.c.l., same basis.....lb. .25 - —
C-5-D, 70% solids, dms. incl., c.l..lb. .25½- —
l.c.l., same basis.....lb. .26 - —
G-25, 50% solids, dms. incl., c.l..lb. .24 - —
l.c.l., same basis.....lb. .24½- —
G-2500, 50% solids, same basis, c.l.lb. .23 - —
l.c.l., same basis.....lb. .23½- —
I-72-D HV, 50% solids, dms. incl., c.l. lb. .19 - —
l.c.l., same basis.....lb. .19½- —
I-7, 60% solids, dms. incl., c.l....lb. .16½- —
l.c.l., same basis.....lb. .17¼- —
I-8, 75% solids, dms. incl., c.l.....lb. .18½- —
l.c.l., same basis.....lb. .19 - —
J-263, 50% solids, dms. incl., c.l..lb. .23½- —
l.c.l., same basis.....lb. .23½- —
J-525, 56% solids, dms. incl., c.l..lb. .20½- —
l.c.l., same basis.....lb. .21 - —
L-4-X, 50% solids, dms. incl., c.l..lb. .23 - —
l.c.l., same basis.....lb. .23½- —
L-5, 60% solids, dms. incl., c.l....lb. .25 - —
l.c.l., same basis.....lb. .25½- —
W-300, 60% solids, dms. incl., c.l..lb. .29 - —
l.c.l., same basis.....lb. .29½- —

Tankcar prices ½c. per lb. below c.l. quotation.
* Tankcar quotation not available.

Falkote 285, 100% solids, dms. incl., c.l. lb. .22½- —
l.c.l., same basis.....lb. .23 - —
315, 100% solids, dms. incl., c.l....lb. .23 - —
l.c.l., same basis.....lb. .23½- —
Flexalyn solution non-ret, dms., dlvd., c.l..lb. .16½- —
l.c.l., same basis.....lb. .16¾- —



A LESSON ON THE VALUE OF SKELLY'S

Dependability of Supply!

"DOC" MacGEE SAYS: Maybe the possibility of a delivery failure in your solvent supply . . . due to some unforeseen shortage . . . seems remote to you. Perhaps such a solvent shortage has never caused a temporary shutdown in any department of your plant. But the mere fact that the possibility does exist, and that shutdowns of this nature do occur, makes *extra precaution* only sensible. That is why so many solvent users have come to place a high value upon Skellysolve's *dependability of supply*.

Other things are important, too, of course. Purity, uniformity, close boiling ranges, freedom from foreign tastes and odors . . . all these we guard with unceasing vigilance.

Skellysolve's *dependability of supply*, however, is something else. We are proud of our record in supplying various types of special fractions, unfailingly, without regard to weather, season, or rush of previous orders. We have our own facilities for producing, purifying, fractionating, handling, storing, and transporting extra quality naphthas that are unsurpassed in the field. Solvents are our *business*. We have pioneered many of the developments in the field of special naphthas. And we are in the business to stay!

So, if some failure of your solvent supply would be a serious matter in your plant, we suggest that you give Skellysolve a trial. We're sure that, whether you judge your solvent on quality of product, promptness of service, or dependability of supply, you'll be *satisfied* with Skellysolve!

SKELLYSOLVE
In the Ink, Paint, and Drug Field

Skellysolve meets every special naphtha quality needed in this field . . . purity, uniformity, close boiling ranges, low evaporation, etc. That is why you can rely on every Skellysolve. There is one with special qualities for production of paint, varnish, oilcloth, ink, linoleum, and other related products . . . as well as for laboratory use. For instance, there is a full line of V. M. & P. naphthas, mineral spirits, and lacquer diluents, plus other special hydrocarbons. And, for help on your particular problems, remember to use the services of Skellysolve Technical Fieldmen.

SKELLY

Skellysolve

SOLVENTS DIVISION, SKELLY OIL COMPANY, KANSAS CITY, MO.

Gelva Resin—Pentalyn Resin

G

Gelva resin, gran., 1½, 2½, 7, 15, 25, 45, 60, 100 and 500 cps., fib. ctns., c.l., dlvd. E. of Miss. R., works..lb. .40 - —
ton lots only, fib. ctns., same basis, lb. .43 - —
over 200 lbs., fib. ctns., same basis, lb. .45 - —
under 200 lbs., fib. ctns., same basis..lb. .60 - —

Special grades of 1½ and 2½ cps. viscosity, low acidity, available at somewhat higher prices. Ctns., included in prices, non-returnable. Prices W. of Miss. R. 5c. per lb. higher.

Gelva solution, 55 cps., 28% solids content in ethanol, non-ret. bbls., f.o.b. Indian Orchard, Mass. gal. 1.75 - —

Gelva water emulsion, approx. 55% solids, grades TS-10, TS-21, TS-30, TS-35, TS-41 (35% solids) and S-50, non-ret. bbls., c.l., dlvd. E. of Rocky Mts., works..lb. .20½- —
ton lots and over, non-ret. bbls., same basis..lb. .22 - —
less than ton lots, non-ret. bbls., same basis..lb. .22½- —

Prices W. of Rocky Mts. 2c. per lb. higher.

Geon polyvinyl resins, Nos. 101 and 102, 30,000 lbs., works—lb. .33 - —
5,000 to 29,999 lbs., works....lb. .34 - —
200 to 4,999 lbs., works.....lb. .36 - —
up to 199 lbs., works.....lb. .50 - —

Geon polyvinyl resins, 202, 30,000 lbs., works..lb. .36 - —
5,000 to 29,999 lbs., works.....lb. .37 - —
200 to 4,999 lbs., works.....lb. .39 - —
up to 199 lbs., works.....lb. .56 - —

203, 30,000 lbs., works.....lb. .36 - —
5,000 to 29,999 lbs., works.....lb. .37 - —
200 to 4,999 lbs., works.....lb. .39 - —
up to 199 lbs. works.....lb. .56 - —

204, 30,000 lbs., works.....lb. .36 - —
5,000 to 29,999 lbs .....lb. .37 - —
200 to 4,999 lbs .....lb. .39 - —
up to 199 lbs. .....lb. .56 - —

205, 30,000 lbs. works.....lb. .33 - —
5,000 to 29,999 lbs., works.....lb. .34 - —
200 to 4,999 lbs., works.....lb. .36 - —
up to 199 lbs., works.....lb. .50 - —

Glyptal 2458, dms., c.l., frt. alld....lb. .24¾- —
l.c.l. .....lb. .25½- —
2462, c.l., same basis.....lb. .21½- —
l.c.l. .....lb. .22 - —
2464, c.l., same basis.....lb. .20 - —
l.c.l. .....lb. .20½- —
2466, c. l., same basis.....lb. .26½- —
l.c.l. .....lb. .27 - —
2475, c.l., same basis.....lb. .24 - —
l.c.l. .....lb. .24½- —
2477, c.l. same basis.....lb. .26½- —
l.c.l. .....lb. .27 - —
2480, c.l., same basis.....lb. .23¼- —
l.c.l. .....lb. .23¾- —
2503, c.l., same basis.....lb. .38¼- —
l.c.l. .....lb. .38¾- —
2504, c.l., same basis.....lb. .23½- —
l.c.l. .....lb. .24 - —
2505, c.l., same basis.....lb. .27 - —
l.c.l. .....lb. .27½- —
2508, c.l., same basis.....lb. .42 - —
l.c.l. .....lb. .42½- —

Glyptal, 2509, c.l., same basis.....lb. .20 - —
l.c.l. .....lb. .20½- —
2527, c.l., same basis.....lb. .23 - —
l.c.l. .....lb. .23½- —
2529, c.l., same basis.....lb. .34½- —
l.c.l. .....lb. .35 - —
2532, c.l., same basis.....lb. .21½- —
l.c.l., ...lb. .22 - —
2555, c.l., same basis.....lb. .28 - —
l.c.l. .....lb. .28½- —
2556, c.l., same basis.....lb. .36¾- —
l.c.l. .....lb. .37¼- —
2570, c.l., same basis.....lb. .24¾- —
l.c.l. .....lb. .25¼- —
2583, c.l., same basis.....lb. .22¼- —
l.c.l. .....lb. .22¾- —
2585, c.l., same basis.....lb. .21 - —
l.c.l., ...lb. .21½- —
2590, c.l., same basis.....lb. .20¾- —
l.c.l. .....lb. .21¼- —
2592, c.l., same basis .....lb. .19¼- —
l.c.l. .....lb. .19¾- —
2593, c.l., same basis.....lb. .24¾- —
l.c.l. .....lb. .25¼- —
2595, c.l., same basis.....lb. .26½- —
l.c.l. .....lb. .27 - —

Gual-a-phene, ret. dms., dms. on deposit at $4.00 each, works, 50-55 gals. .....gal. 2.47 - —
10 gals., two fives per case, works.....gal. 2.57 - —
5 gals., one can per case, works.....gal. 2.62 - —
6 gals., six ones in single case, works.....gal. 2.72 - —
1 gal., in single carton, works.. gal. 2.82 - —

H

Hercolyn (see methyl abietate hydrogenated) in Current Market Quotations

L

Lewisol resin, No. 1, non-returnable light gauge steel dms., c.l., f.o.b. cumstomers siding, zone 1.....lb. .23 - —
l.c.l., same basis.....lb. .23½- —
2-L, c.l., same basis.....lb. .23 - —
l.c.l., same basis.....lb. .23½- —
20, c.l., same basis.....lb. .21½- —
l.c.l., same basis.....lb. .22 - —
21, c.l., same basis.....lb. .21½- —
l.c.l., same basis.....lb. .22 - —
28, c.l., same basis.....lb. .22 - —
l.c.l., same basis.....lb. .22½- —
33, c.l., same basis.....lb. .23 - —
l.c.l., same basis.....lb. .23½- —

Lewisol resin prices are f.o.b. customer's siding, New Eng. and Middle Atlantic States, Va., W. Va., N. C., Ky., O., Mich., Ind., Ill., Miss., Ala., Ga., Fla., S. C. Tenn., Wis, St Paul and Minneapolis, Minn.; St. Louis, Mo. Prices are dms, included, not returnable; net 30 days.

M

Marvinol resin, 30,000 lbs., f.o.b. works..lb. .33 - —
5,000 to 29,999 lbs., same basis..lb. .34 - —
200 to 4,999 lbs., same basis....lb. .36 - —
up to 200 lbs., same basis .....lb. .50 - —

Melmac, 24'-8 dms., c.l., frt alld....lb. .37½- —
l.c.l., frt. alld..lb. .38 - —
560-8 c.l., frt. alld.....lb. .37¾- —
l.c.l., frt. alld.....lb. .38¼- —
686-9, c.l., frt. alld.....lb. .34 - —
l.c.l., frt. alld.....lb. .34½- —
569-8, c.l., frt. alld.....lb. .36½- —
l.c.l., frt. alld.....lb. .37 - —

N

Neo-fat drying oil, 170, dms., incl., c.l., dlvd..lb. .22¼- —
190, dms., c.l., dlbd.....lb. .28¼- —
290, dms., c.l., dlvd.....lb. .31¼- —
fatty acid, 3R, dms., incl., c.l., dlvd..lb. .16¼- —
17, dms., c.l. dlvd.....lb. .20¼- —
19, dms., c.l., dlvd.....lb. .25¼- —

Neo-fat prices are 1c. per lb. higher in all States west of the Rocky Mountains and ½c. per lb. higher in Texas and Oklahoma.

Drums are included and not returnable.

Nevillac, pale, hard, color 1-2, melting point 85-95° C., drums, works..lb. .25 - —
hard, color 2½-4, melting point 85-95° C., same basis..lb. .23 - —
soft, color 2½-4, melting point 65-70° C., same basis..lb. .25 - —
10° C., color ½-4, same basis..lb. .33 - —
ZC, same basis.....lb. .31 - —
OA, same basis.....lb. .45 - —
RP, same basis.....lb. .25 - —
TS, same basis.....lb. .45 - —
RT, same basis.....lb. .31 - —
RX, same basis.....lb. .31 - —
PHO, same basis.....lb. .33 - —

Neville resin, G, dms., net weight lb. .09½- —
R-1 nevindene, color ½, dms., works..lb. .14½- —
R-3, nevindene, color 1, dms., works..lb. .13½- —
R-5, nevindene, color 1½-2, dms., works..lb. .12½- —
R-6, nevidene, color 2½-3½, dms., works..lb. .11½- —
R-7, N.P.S., color below 3, dms., works..lb. .14 - —
R-9, hard, color ½, dms., works..lb. .13 - —
R-10, hard, color 1, dms., works..lb. .13 - —
R-11, hard, color 1½-2, dms., works..lb. .12 - —
R-12, hard, color, 2½-3½, dms., works..lb. .11 - —
R-13, medium color ½, dms., works..lb. .14 - —
R-14, medium, color 1, dms., works..lb. .13 - —
R-15, medium, color 1½-2, dms., works..lb. .12 - —
R-16, medium, color 2½-4, dms., works..lb. .11 - —
R-16-A, color 4-8, dms., works..lb. .09 - —
R-17, medium, soft, color 3½-8, dms., works..lb. .11 - —
R-19, medium, soft, color 3½-8, dms., works..lb. .11 - —
R-21, soft, color 3½-8, dms., works..lb. .11 - —
R-22, special, soft, color 3½-8, dms., works..lb. .11 - —
R-29, medium, soft, color 2½-8, dms., works..lb. .11 - —
465, 110-125° C., dms., gross weight, Pittsburgh..lb. .04½- —
P, H.O., dms., works.....lb. .33 - —
Resinous oil, No. XI, ret. drums..lb. .02 - —

Neville resin prices, except "G" resin, R-16-A and 465 resin, are freight equalized with Phila. Less than full drum shipments are 5c. per lb additional, f.o.b. Neville Island, Pa.

Nevinol, dms., works.....lb. .16 - —
Nevtex, 10, returnable, dms., works.lb. .08½- —
Nuba, No. 1, 80-90° C., dms., gross weight..works..lb. .03½- —
No. 2, 100-125° C., dms., gross weight, works..lb. .03½- —
No. 3-X, 135-150° C., dms., gross weight, works..lb. .05 - —

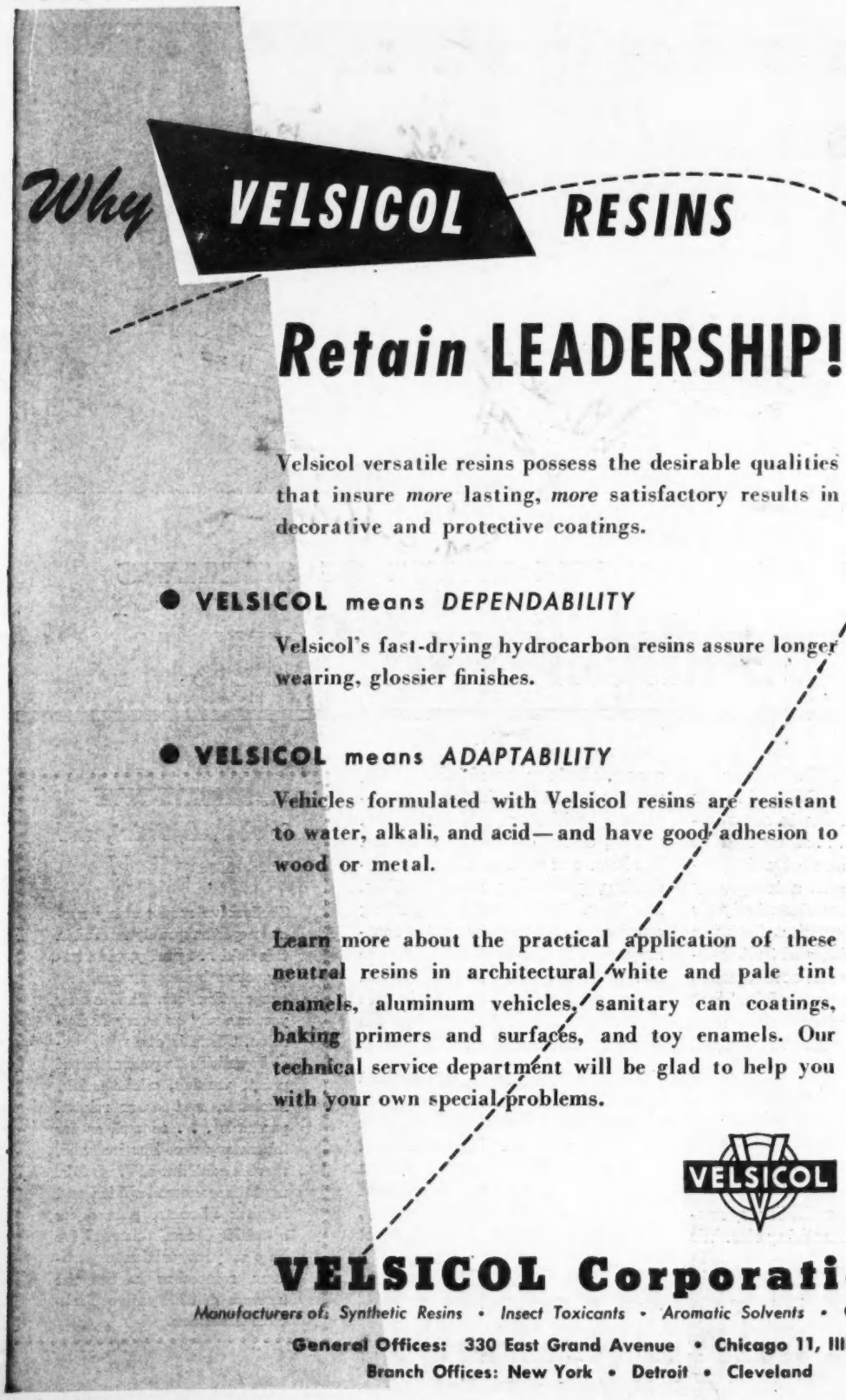
P

Paradene prices are freight equalized in Philadelphia, Pa.

2, 100-125° C., color 12-16, dms., gross wt., works..lb. .05½- —
3, 125-140° C., dms., gross wt., works..lb. .06 - —
33, 34, color 10-15, dms., works..lb. .06½- —
35, color 10-15, dms., works, gross wt..lb. .06 - —

Paradene prices are freight equalized in Philadelphia, Pa.

Pentalyn A, non-ret. dms., f.o.b. customer's siding, zone 1, c.l..lb. .15 - —
l.c.l., same basis.....lb. .15½- —
C, c.l., same basis.....lb. .18 - —
l.c.l., same basis.....lb. .18½- —
F, c.l., same basis.....lb. .19½- —
l.c.l., same basis.....lb. .20 - —
H, c.l., same basis.....lb. .20 - —
l.c.l., same basis.....lb. .20½- —
G, c.l., same basis.....lb. .19½- —
l.c.l., same basis.....lb. .20 - —
M, c.l., same basis.....lb. .21½- —
l.c.l., same basis.....lb. .22 - —
M-802A, c.l., same basis.....lb. .21 - —
l.c.l., same basis.....lb. .21½- —
X, c.l., same basis.....lb. .21 - —
l.c.l., same basis.....lb. .21½- —
Phenac, 604-M, dms., c.l., frt. alld..lb. .22 - —
l.c.l., frt. alld.....lb. .22½- —
608, c.l., frt. alld.....lb. .23 - —
l.c.l., frt. alld.....lb. .23½- —
622-N, c.l., frt. alld.....lb. .21½- —
l.c.l., frt. alld.....lb. .22 - —
X-687, c.l., frt. alld.....lb. .35 - —
l.c.l., frt. alld.....lb. .35½- —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Velsicol versatile resins possess the desirable qualities that insure more lasting, more satisfactory results in decorative and protective coatings.
● VELSICOL means DEPENDABILITY
Velsicol's fast-drying hydrocarbon resins assure longer wearing, glossier finishes.
● VELSICOL means ADAPTABILITY
Vehicles formulated with Velsicol resins are resistant to water, alkali, and acid—and have good adhesion to wood or metal.
Learn more about the practical application of these neutral resins in architectural white and pale tint enamels, aluminum vehicles, sanitary can coatings, baking primers and surfaces, and toy enamels. Our technical service department will be glad to help you with your own special problems.
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Piccolastic, A-L, A-5, A-25, A-50, B-50, C-5, C-25, C-50, E-50 types, c.l., Clairton, Pa..lb. .. .20 - —
A-L, etc., l.c.l., same basis.....lb. .20½- —

The above types are sold in heavy gauge steel drums, weighing approximately 52 lbs. each. Drums extra at $1.25 each, and nonreturnable.

A-75, B-75, B-100, C-75, C-100, C-125, D-75, D-100, D-125, D-150, E-75, E-100, E-125 types, c.l., Clairton, Pa..lb. .20 - —
l.c.l., same basis.....lb .20½- —

The above types are sold on a net weight basis, in light gauge steel drums weighing approximately 15 lbs. each, drums included.

FT, FX, FHF types, c.l., Clairton, Pa..lb. 12½ —
l.c.l., same basis.....lb. .13 - —

The above types are in heavy gauge steel drums, weighing approximately 52 lbs. each. Drums extra at $1.25 each, and non-returnable.

Piccolyte resins, S-10, S-25, S-40, dms., net, wt. f.o.b. Clairton, Pa., c.l..lb. .19 - —
l.c.l. .....lb. .19½- —
S-55, S-70, same basis, c.l.....lb. .20 - —
l.c.l. .....lb. .20½- —
S-85, S-100, same basis, c.l.....lb. .21½- —
l.c.l. .....lb. .21½- —
S-115, same basis, c.l.....lb. .20 - —
l.c.l. .....lb. .20½- —

Piccoumaron resins, 420, 420-S, dms., net, wt., f.o.b. Clairton, Pa., frt. equald..lb. .09½- —
420-T, gross wt., f.o.b. works....lb. .09¾- —
422-R, 423-R, 425-R, 427-R, dms., net, wt., f.o.b. works, frt. equald..lb .11 - —
430, 435, bulk, gross wt., same basis, lb. .05½- —
440-T, f.o.b. works.....lb. .08¾- —
450, 450-H, and 450-S, f.o.b. works, frt. equald..lb. .10½- —
450-EH, same basis.....lb. .10½- —
460-T, f.o.b works.....lb. .08¾- —
XX-25, XX-40, bulk, net wt., f.o.b. works, frt. equald.....lb. .06½- —
XX-55, dms., gross wt., same basis, lb. .06 - —
XX-70, XX-100, same basis.....lb. .05½- —
XX-115, same basis.....lb. .06 - —
T-115, f.o.b. works.....lb. .09¾- —
60%, 420-ES Sol., non-ret. dms., c.l..lb. .08 - —

Pliolite, S-5, milled resin, dms., f.o.b. Akron, ton..lb. .50 - —
Base, 1-85, titanium dioxide, same basis..lb. .45 - —
2B-85, carbon black, same basis.lb. .50 - —
5-85, zinc oxide, same basis.....lb. .34 - —
6-85, red lead, same basis.....lb. .36 - —
7C-85, Indian red, same basis...lb. .49 - —
8-85, zinc chromate, same basis.lb. .51 - —
13-85, China clay, same basis....lb. .33 - —
14-85, dithcnone, same basis.....lb. .31 - —
17-85, Prussian blue, same basis.lb. .65 - —
38-85, yellow iron oxide, same basis. lb. .45 - —
35-85, toluidin toner, medium, same basis..lb. .95 - —
39-85, C.P., chrome green, medium, same basis..lb. .64 —
41-85, C. P., chrome yellow, medium, same basis..lb. .46 - —
46B-85, lampblack, same basis..lb. .55 - —
47-85, high zinc lithopone, same basis..lb. .34 - —
61-85, molybdate orange, dark, same basis..lb. .64 - —
65-85, C.P., chrome yellow, extra light, same basis..lb. .51 - —
71-85, R-100, flash red, same basis. lb. .98 - —

These prices apply to all orders for resin and bases in excess of 2,000 lbs. The order may consist of several items. For quantities of 200 to 1,999 lbs. add 1c. per pound to the above prices. For quantities of less than 200 lbs. add 2c. per pound to the above prices.

Polyamide, ED, Nos. 93, 94, and 95, f.o.b. works, l.c.l. quantities...lb. .55 - —
Polyethylene resins, f.o.b. Bound Brook, N.J.
DYNH, granular, bags, f.o.b. South Charleston, W. Va..lb. .49 - —
DYNJ, granular, same basis.....lb. .51½- —
Polypale ester, No. 1, non-ret. dms., c.l., dlvd..lb. .16 - —
l.c.l., same basis.....lb. .16½- —
No. 2, c.l. same basis.....lb. .18¾- —
l.c.l., same basis.....lb. .19¼- —
No. 10, non-ret, dms., c.l., dlvd..lb. .16 - —
l.c.l., same basis .....lb. .16½- —

R

Resimene 875, non-ret. dms., c.l., f.o.b. Springfield, Mass..lb. .37¼- —
non-ret. dms., l.c.l., same basis..lb. .37½- —
5-gal. containers, same basis....lb. .39½- —
Freight charges allowed on shipments of 200 lbs. or more, net weight, via route of shipper's choice up to but not exceeding L.C.L. rate to and including St. Louis, Mo. Shipments of less than 200 lbs., price is f.o.b. Springfield, Mass.

Rezyl 92-5, dms., c.l., fr. alld.....lb. .31 - —
l.c.l. .....lb. .31½- —
99-4-09, c.l., same basis.....lb. .25 - —
l.c.l. .....lb. .25½- —
330-5, c.l., same basis.....lb. .23¼- —
l.c.l. .....lb. .23¾- —
387-5 c.l., same basis.....lb. .23 - —
l.c.l. .....lb. .23½- —
412-1, c.l., same basis.....lb. .20 - —
l.c.l. .....lb. .20½- —
455-1, c.l., same basis.....lb. .21¼- —
l.c.l. .....lb. .21¾- —
728-5, c.l., same basis.....lb. .25½- —
l.c.l. .....lb. .26 - —
729-5, c.l., same basis.....lb. .23½- —
l.c.l. .....lb. .24 - —
731-5, c.l., same basis.....lb. .25½- —
l.c.l. .....lb. .26 - —
775-1, c.l., same basis.....lb. .22 - —
l.c.l. .....lb. .22½- —
784-1, c.l., same basis.....lb. .24 - —
l.c.l. .....lb. .24½- —
807-1, c.l., same basis.....lb. .22 - —
l.c.l. .....lb. .22½- —
811-1, c.l., same basis.....lb. .23 - —
l.c.l. .....lb. .23½- —
823-1, c.l., same basis.....lb. .21½- —
l.c.l. .....lb. .22 - —
828-1, c.l., same basis.....lb. .34½- —
l.c.l. .....lb. .35 - —
872-1, c.l., same basis.....lb. .26½- —
l.c.l. .....lb. .27 - —
875-1, c.l., same basis.....lb. .25¼- —
l.c.l. .....lb. .25¾- —
880-1, c.l., same basis.....lb. .24½- —
l.c.l. .....lb. .25 - —
1062-5, c.l., same basis.....lb. .22½- —
l.c.l. .....lb. .23 - —
solid, 99, c.l., same basis.....lb. .46½- —
l.c.l. .....lb. .47 - —
X-345, c.l., same basis.....lb. .47¼- —
l.c.l. .....lb. .47¾- —
869, c.l., same basis.....lb. .52 - —
l.c.l., same basis.....lb. .52½- —

S

Santolite MHP, HLA, 60-lb. tins, incl., 100,000-lb. lots, f.o.b. St. Louis. lb. .35 - —
25,000-lb. lots, same basis.....lb. .36 - —
5,000-lb. lots, same basis.....lb. .37 - —
1,000-lb. lots and less, same basis. lb. .38 - .40
K-5-H, 500-lb. dms., incl., 25,000-lb. lots, same basis..lb. .35 - —
10,000-lb. lots, same basis.....lb. .38 - —
1,000-lb. lots and less, same basis. lb. .41 - .46
MS 80% solution, 540-lb. dms., incl., 25,000-lb. lots, same basis..lb. .35 - —
5,000-lb. lots, same basis.....lb. .36 - —
1,000-lb. lots and less, same basis. lb. .36½ .41½
Saran F-120 resin, c.l., works.....lb. .52 —
l.c.l., same basis.....lb. .54 - —
F-122 latex, approx. 56% solids contained, wood, bbls. (55 gals.), c.l., works..lb. .40 - —
l.c.l., same basis.....lb. .44 - —
10-gal. bbls., same basis.....lb. .50 - —
Silene (see Calcium silicate hydrated under C in Current Market Quotations).
Staybelite ester, No. 5, non-ret. dms., c.l., f.o.b., customer's siding, zone 1..lb. .19 - —
l.c.l., same basis.....lb. .19½- —
No. 10, c.l., same basis.....lb. .18 - —
l.c.l., same basis.....lb. .18½- —
No. 101, c.l., same basis.....lb. .19 - —
l.c.l., same basis.....lb. .19½- —

T

Teglac, 15, dms., c.l., frt. alld.....lb. .26 - —
l.c.l., same basis.....lb. .26½- —
127, c.l., frt. alld.....lb. .24½- —
l.c.l., same basis.....lb. .25 - —
128, c.l. frt. alld.....lb. .23½- —
l.c.l., same basis.....lb. .24 - —
Z-152, c.l., frt. alld.....lb. .26¾- —
l.c.l., same basis.....lb. .27¼- —
161, c.l., frt. alld.....lb. .23½- —
l.c.l., same basis.....lb. .24 - —
164, c.l., frt. alld.....lb. .23½- —
l.c.l., same basis. .....lb. .24 - —

V

Vanadist resins, grade B, 240-255° F. m.p., whse..lb. .028 - .052
C, 315-340° F. m.p., whse.....lb. .021 - .050
D, 170-189° F. m.p., whse.....lb. .030 - .055
MR, 260-270° F. m.p., whse....lb. .024 - .050
pulverized, whse.....lb. .0850- .210
solution, whse.....lb. .4000- .650
Velsicol resins, AD-6-3, dms., c.l., f.o.b. works..lb. .15 - —
10 dms. up, works.....lb. .15½- —
1-9 dms., works.....lb. .16 - —
AB-11-4, dms., c.l., works.....lb. .09¼- —
l.c.l., dms., works.....lb. .09½- —
Solutions, AD-660, tankcars, works, lb. .09⅞- —
dms., c.l., works.....lb. .11¼- —
l.c.l., works.....lb. .11⅝- —
AD-670, tankcars, works.....lb. .11¼- —
dms., c.l., works.....lb. .12⅝- —
l.c.l., works.....lb. .13⅛- —
Velsicol solutions, AB-400, tankcars, works..lb. .06⅝- —
dms., c.l., works.....lb. .08 - —
l.c.l., works.....lb. .08½- —
Cost of non-returnable drums included in the above prices.
Vinsol resin, c.l., f.o.b. works.....lb. .06 - —
1,000 lbs., same basis.....lb. .07 - —
500 lbs. to 950 lbs., same basis..lb. .07½- —
less than 500 lbs., same basis..lb. .10 - —
Vinylseal, vinylite resin AYAB, 69-72% by weight, solution in acetone, non-ret. dms., ex 5-gal. carboys, f.o.b. South Charleston, W. Va.
A-70, drum lots, same basis....gal. 2.75 - —
less than drum lots, same basis.. gal. 3.00 - —
Vinylite resin, AYAF, 35% by weight, solution in acetone, same basis.
A-35, drum lots, same basis....gal. 2.10 - —
less than drum lots, same basis.gal 2.50 - —
Modified vinyl acetate resin, 24.5% by weight, solution in toluene, same basis
T-24-9, 20-dm. lots, same basis..gal. 2.00 - —
drum lots, same basis.....gal. 2.25 - —
less than drum lots, same basis.gal. 2.50 - —
Modified vinyl acetate resin, 28% by weight, solution in 82% methyl acetate, same basis.
MA-28-14, 20-dm. lots, same basis. gal. 2.15 - —
drum lots, same basis.....gal. 2.50 - —
less drum lots, same basis... gal. 2.65 - —
MA-28-18, 20-dm. lots, same basis.. gal. 2.15 - —
drum lots, same basis..... gal. 2.40 - —

—Continued on page 78

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Viewing Prices Realistically

In their readily understandable desire to avoid a reapplication of governmental rationing and price-control, business leaders are endeavoring to find a way out of the cyclone of price increases. They seek a practicable means of reversing the price trend in order that theoretical experimentation in political economy may be avoided. They are finding the profit motive rather difficult to counteract.

Some enlightened advisers of business are urging the application of realistic methods of pricing, the realization having to do with the fact that buyer resistance is growing. It is better, they say, to make one dollar where two might be made, because tomorrow is another day and there will be another dollar. These realistic observers know that it is a first law of economics, as well as of mechanics, that it takes several times as much energy to restart a motion as it does to keep it going. The buyer who quits because of a two-dollar profit cannot be started again with an inducement of a one-dollar reduction.

Being realistic is needed in thought, as well as in pricing. The concepts of those who advocate decreased buying and of those who urge increased production do not have equal measures of realism: in a way, neither has very much. Buying of many things is already, for many persons, at the minimum essential to existence. Many others can see no reason for curtailing. Production of a number of commodities is held back by inability to get commensurate distribution, because of inadequacy of transportation or containers. Allocation of production which would overcome those handicaps would be more practicable than the popularly promoted production and more production. Allocation of buying is nothing other than rationing. To be realistic, it must be admitted that neither is likely to be effected voluntarily.

Medical Care By Law

One of the most interesting of recent developments in political programs is the change of front on the part of the senatorial seeker of the Republican presidential nomination with reference to public welfare legislation. The prospecting candidate a fortnight or so ago expressed something more than doubt that there would be any such legislating in the next session of Congress. He based his views on the reluctance, or aversion, of the Republican congressmen to increasing the powers of the executive branch of the government as long as the Democrats had control of it. Whether in his prospecting perigrinations the senator learned that public sentiment did not square with that attitude has not, of course, been disclosed. But, he now sees welfare legislating in 1948.

Whatever the course, the senator's change of front, if not of mind, has a significance which businessmen cannot afford to disregard. It has a particular pertinence for those in the drug business who have been manifestly elated over the further deferment of legislation proposing the improvement of the medical service of the people of the United States. It is to be said that such was not the response of alert, informed members of the drug business to the senator's intimated postponement of health-care legislation. They know that there is a need for improvement. They also know that it is no more necessary than it is desirable that the improvement be essayed by government alone. They know that the medical profession and its associates in the healing arts can do the job much better and must do it if it is to be done right. But, they also know that government is not going to wait while medicine and pharmacy go about the improving in their own way and in their own time.

Introduction of legislation for some scheme of health insurance or other medical-care program will not, of course, mean the establishment of such a program: the bill may not be passed in 1948. But, unless the private agencies particularly concerned effect at least some measure of the necessary—that term is used advisedly—improvement in the medical service of the whole people, a public program will be launched within another year. Medicine and pharmacy will wisely collaborate now and henceforth to make that eventuality clearly unnecessary.

By Any Other Name

Economists are looking for a substitute for the term, "free enterprise," as descriptive of the economic system under other than totalitarian forms of government. They know that no enterprise is free. They are particularly aware that, in the United States, the activities of business are restrained by a number and a variety of laws. They recognize the necessity of such restraints.

There is a substantial advocacy of "individualism" to replace "free enterprise" as an economic descriptive. That term, however, is almost as far from exactness as is the one which it is proposed to replace. What with labor unions in one area, and corporate structures in another, and both of them overlapping and duplicating and interfering, the individual is a cog, not a power, in the economic system. The distinction from "nationalism" which "individualism" connotes is not sufficient to offset the latter's inaccuracy.

"Private enterprise" has a particular fitness. But, it must be admitted that a system involving wide public ownership of corporation securities and extensive public regulation of various activities is not exactly private. In spite of all the sneer with which it is often pronounced, "capitalism" is a term of special appropriateness in describing the opposite of a nationalistic economy. The popular vocabulary being what it is, any one of a half-dozen descriptions, including "trust" and "profiteer," will continue to satisfy individual needs.

Washington Talks It Over

—*Continued from page 5*

as most observers expect, don't look for the session to be limited solely to the question of stop-gap aid to Europe. The probabilities are that it will be open to all legislation that Congress considers important.

There are quite a few bills on the calendar, left over from last session, which the Republican leadership would like to put through, such as taxes, revisions in the overall farm program and amendments to the Fair Labor Standards Act, and a two months headstart in getting to work on this legislation would be very much to their liking. Next year is a campaign year and the leadership doesn't want Congress to have to stay in session unduly long.

Undoubtedly there will be much said during the session about prices and costs of living, but whether anything is done to offset the rise will depend upon what the committees, now in the field, report.

Investigation of Amadone

Scientists may soon come up with a new pain killing drug that may be equally as good in this respect as morphine, but without its habit forming properties. Amadone, the German-developed synthetic opiate, may hold the solution of this long sought objective of the medical profession.

Several studies by private as well as public institutions of the isomers of amadone are now going on in various sections of the country in the belief that a slight change in the molecular makeup of the synthetic will prove the desired results. Several new forms of amadone are understood to have already been developed and others are in the process of development.

The resultant products will be given exhaustive tests both as to their addiction properties and their tolerance, that is to say, whether they build up a resistance in the patient which necessitates taking ever increasing amounts to be effective pain killers. When these answers have been found the products will go on the market.

Surplus Sales Speed-Up

The War Assets Administration has passed the half-way mark in its disposal of surplus war plants and other real property valued at some $83,000,000,000, and is now preparing to turn the heat on its remaining inventories in a move to windup the program entirely next year. A reorganization of its real property sales organization is now in process "to give disposal the final finish."

Principal features of the reorganization program include giving WAA field offices direct responsibility to sell at prices fixed in WAA headquarters; sales by direct negotiations in the case of scrambled facilities and other property where there is only one possible buyer due to location, use of property, etc.; more aggressive sales action by WAA field forces; use of carefully selected real estate brokers for hard to sell property; and organization of WAA advisory councils of businessmen in each zone. Zone headquarters are located in New York, Atlanta, Chicago, Kansas City, Grand Prairie, Tex., and San Francisco.

Export Regulation Clarified

Ever since the Office of International Trade modified its regulations to require that an exporter would have to have a firm order in hand before he could obtain a license to export a particular commodity there has been quite a bit of question in the trade as to just what OIT considers a "firm order" to be. As a result of so many inquiries coming in, the OIT has drawn up a formal interpretation. It considers a "firm order" to be:—

"An order placed with an exporter in the United States by an importer in a foreign country which, if accepted by the exporter, will result in a binding contract between the exporter and the importer. While the terms of the order may be conditioned, such terms must be ascertainable and certain; for example, (1) the terms of payment may provide a price dependent upon the market price at the time of delivery; (2) the time or place of delivery may be dependent upon an event in the future, etc."

In other words, a "firm order" is more than a mere business inquiry relating to the possible purchase of merchandise, although it need not be an agreement which can be presently executed. Furthermore, while orders may be conditioned upon the issuance to the exporter of an export license or the issuance to the importer of an import permit, such orders would still be considered as firm orders within the meaning of the OIT's interpretation.

Wage-Hour Law Hearings

The house committee on labor is planning an early start on consideration of the pending bills for modifying the provisions of the wage-hour law, which was discussed at great length last session, but laid aside in the pressure of work on the Taft-Hartley law. The committee is going to start its bearings on the various amendments proposed to the wage-hour law October 24, more than two months ahead of the regularly scheduled meeting of Congress.

It is expected that primary attention is to center on demands to clarify the exemption of supervisory and administrative employees, to limit the application of the act to companies doing a substantial portion of their business in interstate commerce, and to clarify the definition of the "regular rate" upon which overtime payments must be based. Recent interpretations and court decisions have extended the present act to include almost every type of bonus payments in the computation of the regular rate.

Another strong movement is to be expected to develop in the next session to raise the minimum wage from forty to sixty or sixty-five cents per hour. Something in this direction is probable with the likelihood that the committee will not go above the sixty-cent level, however.

Big Inch Deal Set

There seems to be but little question in the minds of observers that the Federal Power Commission has made its decision to grant the Texas Eastern Transmission Corporation the certificate of necessity it has applied for to use the government-built Big Inch pipeline system for transportation of natural gas to the Appalachian region. All that is lacking is the formal order issuing the certificate.

There never was much doubt that the FPC would approve the application and it became almost a certainty last week when the commission—in effect, putting the cart before the horse—announced that it had authorized New York State Natural Gas Corporation to construct and operate facilities which will enable it to receive deliveries from the Big Inch. It would seem impossible for the Commission to deny the certificate in view of this action.

After all, Texas Eastern has agreed to pay the government $143,000,000 for the line, which is nearly twice as much as any other offering received by WAA. This isn't too far off from the cost of constructing the line to the government. In fact the government stands to come out on top by several millions of dollars because it has already gotten back a good part of the cost in the form of transportation charges for use of the lines during the war.

Weed Control Study

More effective means of controlling weeds which increase costs of United States crop production an estimated $3,000,000,000 annually, is one of the many studies that are being mapped out by the Department of Agricultural researchers under the Research and Marketing Act. The experts want to develop practical methods, materials, and equipment for weed control.

Basic research on herbicides such as 2,4-D and their effects on plants will be one of the main points of the studies. Also included in the program is research on major weed problems of the country organized on a regional basis. This will be in cooperation with the State experiment station.

Discovery of new and more effective herbicides in 1944 sharply altered the picture of weed control and the project will make it possible to initiate studies on weeds of major importance in areas where this has not been done extensively.

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Heavy Chemicals

The upward trend of prices for industrial chemicals was emphasized at the turn of the month. Advances were conservative and could be traced directly to the mounting prices of production resulting from the increased costs of containers, freight rates, fuel, labor and raw materials. The upward price revisions included glacial acetic acid, phosphoric acid 75 percent in barrels, barium hydrate, barium oxide, bleaching powder, calcium phosphate, feed grade, monobasic and tribasic, carbon tetrachloride C.P. and technical, chlorine, soda ash, soda caustic and sodium sesquicarbonate. Some of the major producers of caustic potash have advanced prices and also those for potassium carbonate 3½ to 8 percent above the former schedule, but others have not followed in line to date. The declines in prices were limited to phosphoric acid 75 percent in tankcars and domestic quicksilver in flasks.

Producers continue to face a serious problem in securing containers. Aside from steel for drums, the shortage of glass carboys has interrupted shipments of formic and nitric acids and other chemicals where glass containers are an important means of distribution. Discarding of old tankcars has continued to diminish the supply as the removal is said to be greater than the delivery of new ones. High prevailing freight rates have played an important part in the contribution of strength to the market. As an example, muriate of potash has a long haul from the mines in the Southwest to points where it is processed into potash based chemicals and conditions for several other chemicals are just about as expensive.

Paper production based on a percentage of six-day capacity was 107.0 percent for the week ending September 27, according to the American Pulp and Paper Association. This compares with 108.6 in the preceding week and 106.6 for the corresponding week in 1946.

Production figures given below unless otherwise designated are from the Tariff Commission of Department of Commerce.

Acetic Anhydride — July production amounted to 52,910,218 pounds and included that made from ketone, acetylene, ethylene and from acetic acid by the vapor process. June output was 41,433,264 pounds. The greatest monthly production in the first seven months was registered in May when 54,248,626 pounds were made.

Ammonium Bicarbonate — Stocks have been maintained at a level sufficient to meet consuming requirements. Producers report a normal demand from the bakeries and are in a position to offer immediate shipments at former price levels.

Arsenic—June importations of 3,049,000 pounds were the highest for any month in the first half of 1947. Total imports from January through June amounted to 14,895,000 pounds, a decline of 4 percent from the corresponding period in 1946. Included in this total were 12,405,000 pounds from Mexico, 1,127,000 pounds from Sweden, 1,194,000 pounds from Russia, 110,000 pounds from Poland and 59,000 pounds from Canada. The present market has continued tight with shipments said to be moving mostly to the glass and affiliated industries. An arrival of 3,273 barrels was noted from Russia during the week.

Barium Hydrate—Priced higher beginning October 1. The carlot price is 9c. per pound for bags in carlots and 9½c. per pound for smaller quantities, f.o.b. western works, freight equalized with competitive points.

Barium Oxide—Higher prices were made effective October 1. Fiber drums in carlots are priced at 12½c. per pound for ground in carlots and at 13½c. for less. Steel drums in carlots, returnable, are held at 11c., and 11½c. for less, f.o.b. western works, freight equalized with competitive points.

Bleaching powder—Exports declined during the first half of 1947. The total registered 6,050,240 pounds, compared with 14,086,558 pounds for the corresponding period in 1946. The current market has tightened to some extent and producers are higher in their views. The shortage of steel has kept the supply of large steel drums exceedingly scarce and the market is nominal at $3 per pound for carlot shipments. The lowest price heard for fiber drums, small steel drums and barrels in carlots is $3.50 per 100 pounds. Smaller quantities were priced at $4 per 100 pounds. All prices are f.o.b. the works.

Calcium Phosphate—An advance of 50c. per ton has become effective for the feeding grade. The carlot price is given at $75.50 per ton works.

Calcium Phosphate, Monobasic — Priced higher at $6.50 to $6.80 per 100 pounds in bags for carlots works freight equalized with competitive points.

Calcium Phosphate, Tribasic — Higher prices have been made effective. The minimum price for carlots is 6½c. per pound works for material in bags. Smaller quantities range upward from 6¾c. per pound. Available stocks of all phosphates are scarce at the present time with demand active. Soda acid pyrophosphate is quoted at $10.50 per 100 pounds in bags for carlot shipments from works freight equalized with competitive points. Smaller lots are held at $10.75 to $12.00 per 100 pounds.

Carbon Disulphide—Production was lower in July at 28,210,960 pounds, compared with 29,328,736 pounds in the preceding month and a high of 30,263,833 pounds registered in March.

Carbon Tetrachloride—Advances averaging ½c. per pound were established for contracts on October 1. Carlots in 700 pound drums are quoted at 7c. per pound for technical in zone one with other zones proportionately higher. The less than carlot price is 7½c. per pound. Fire extinguisher fluid is priced at 7½c. per pound in drums, carlots and at 8¼c. per pound for less. Tanks were quoted at 7c. per pound; these prices refer to zone one, other zones are ½c. to 1c. per pound higher. The C.P. grade has been advanced 2c. to 11c. per pound for drums in carlots and 11½c. per pound for smaller quantities f.o.b. works. Production in July amounted to 15,784,934 pounds, compared with 16,935,853 pounds in the preceding month.

Chlorine—Contract shipments were quoted higher beginning October 1. The lowest price named for single unit tankcars was $2.25 per 100 pounds. Multiple unit tankcars were priced at $2.55 per 100 pounds, two cars at $3.15 and single cars at $3.75 per 100 pounds. The prices on chlorine in small cylinders, 150 pounds net, have been advanced ½c. per pound. Prices are f.o.b. the works.

Copper Sulphate — Exports for June amounted to 1,679,000 pounds according to the Department of Commerce. This is the lowest total for any month during the first half of 1947. Combined exports from January 1 through June were 31,169,000 pounds, compared with 42,428,000 pounds for the corresponding period in 1946. The decrease was attributed largely to a lessening of demand from Europe. In January-June last year 12,500,000 pounds were shipped to that area while in the same time in 1947 only 1,915,000 pounds were destined to those countries.

Potash, Caustic—Contracts are now being written for 1948 shipments by some of the major producers. Solid in large packages, carlots is priced higher at $7.25 per 100 pounds, flakes at $7.85 and broken at $8.10 per 100 pounds. Less than carlots of walnut is held at $10 per 100 pounds. Liquid in tanks is priced at $3.25 per 100 pounds for 45 percent and in drums at $3.575 flat. All prices are f.o.b. the works. Some liquid in tankcars is available for prompt shipment at present but the dry forms are in short supply with buying conditions definitely tight. Total exports for the first six months of this year amounted to 5,518,068 pounds, compared with 9,068,818 pounds for the same period in 1946.

Potassium Carbonate—Higher prices for 1948 deliveries have been named by some producers. Calcined is priced at $7.50 per 100 pounds and hydrated at $6 per 100

For Late Market Developments, See Page 4

Market Trends

Prices Advanced

Acid, acetic, glacial, c.p., dms., 80c. per 100 lbs.
technical, dms., 60c. per 100 lbs.
tanks, 50c. per 100 lbs.
phosphoric, 75 percent, bbls., 50c. per 100 lbs.
Barium, hydrate, 1c. per lb.
oxide, 1c. per lb.
Bleaching powder, 25c. per 100 lbs.
Calcium phosphate, feed grade, 50c. per ton.
monobasic, ¾c. per lb.
tribasic, 45c. per 100 lbs.
Carbon tetrachloride, c.p., 2c. per lb.
technical, ½c. per lb.
Chlorine, 25c. per 100 lbs.
Soda ash, 10c. per 100 lbs.
caustic, 25c. per 100 lbs.
Sodium sesquicarbonate, 10c. per 100 lbs.

Prices Reduced

Acid, phosphoric, tanks, 65c. per 100 lbs.
Quicksilver, domestic, $3.50 per flask.

Comparative Price Indexes

(100=August 1, 1914)

General Chemicals

Last week.	Prev. week.	Last month.	Last year.
201.3	201.1	199.9	172.3

Acids

Last week.	Prev. week.	Last month.	Last year.
119.5	119.3	119.3	116.0

(For Current Prices see Page 9)

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pounds for carlots. Liquid in tanks is held at $3.125 per 100 pounds and in drums at $3.45 per 100 pounds. All prices are f.o.b. the works. Continued short stocks have kept the market in a tight buying condition.

Potassium Chlorate—Capacity production of this chemical has not eased the supply position. Buying interest has increased substantially and available stocks have steadily decreased. Importations for the first half of this year amounted to 290,503 pounds, compared with 439,686 pounds for a similar period in 1946.

Soda Ash—Contract prices have been adjusted to a higher level, the advance being made effective October 1. Light ash bulk in carloads is priced at $1.10 per 100 pounds, in paper bags $1.30 per 100 pounds, in burlap bags $1.40 per 100 pounds and in barrels $1.70 per 100 pounds works. Dense soda ash is held at $1.18 per 100 pounds in bulk for carlot shipments, in paper bags $1.38, in burlap bags $1.48 and in barrels $1.78 per 100 pounds works. The usual differential on light and dense ash will be effective.

Soda, Caustic—Higher prices were made effective on October 1. Solid caustic soda 76 percent in drums, carlots is held at $2.85 per 100 pounds and flakes, ground or powdered at $3.25 per 100 pounds. Rayon grades solid and flakes will be available only on special order at 10c. additional cost. Liquid caustic soda 50 percent in sellers' tankcars basis 76 percent is quoted at $2.25 per 100 pounds and 70 percent in seller's tankcars basis 76 percent at $2.35 per 100 pounds. All prices are f.o.b. the works.

Sodium Chlorate—Opened the last quarter in a definitely tight supply condition. Capacity output was not sufficient to ease the available supply. Demand has mounted to an unusually high level during the past few weeks.

Sodium Nitrite—Limited quantities have continued available for immediate shipment at former prices. Buying interest from the dyestuff trade and also the meat-packers remained active.

Sodium Sulphide—Consuming demand has kept far enough ahead of current production to create a decidedly tight buying condition. Prices are firmly sustained at the lately advanced selling level.

Zinc Sulphate—Production has been keyed to a level sufficient to meet consuming requirements. It is stated that a large part of the rayon mills are covered by contracts. Buying interest at present has come mostly from the chemical and glue industries. The market's price structure has continued firm in sympathy with metal and the mounting costs of labor, containers and freights.

Acids

Acetic—Glacial acetic acid is priced higher at 10½c. to 11c. per pound in drums. Tankcars were quoted at 8.12c. to 8.62c. per pound, USP drums 11½c. to 12c. per pound and c.p. in drums 13½c. to 14c. per pound, all prices are f.o.b. the works. No changes were reported in the lower strength commercial grades. Production of synthetic acetic acid in July was the highest for any of the first seven months. The total registered 33,193,626 pounds, compared with 29,843,273 pounds in June and a previous high of 32,997,431 pounds in January. The amount of recovered acid in July amounted to 121,831,729 pounds, against 93,770,807 pounds in the preceding month. Production of natural in July was 2,222,092 pounds, including the amount produced by direct process from wood and that distilled from calcium acetate. This total was the largest also for any of the seven months recorded. June production was 1,885,238 pounds.

Chromic — Supply situation continued tight at the beginning of the last quarter. Production has been insufficient to meet plater requirements and the market is firm at the recently advanced level.

Muriatic—Stocks reported about even with demand. Export inquiry has continued active. Total foreign shipments for the first half of this year amounted to 2,531,632 pounds, compared with 1,666,045 pounds for the corresponding period in 1946.

Nitric—Export shipments show an increase for the first six months of this year. The total was 1,705,878 pounds, against 1,069,255 pounds for the same time in 1946. Production has kept pace with domestic demand but producers have experienced considerable difficulty in securing glass carboys to move material from works.

Phosphoric—Prices are higher for 75 percent test. The carlot price in barrels at works is quoted at $5.75 per 100 pounds minimum and $6.10 in carboys. A deposit of $10 per carboy is demanded by some producers. The tankcar price was lower at $4 per 100 pounds. The shortage of glass carboys is a serious problem at present.

Oxalic—No material improvement in sight at the beginning of the last quarter. Producers are confining shipments to regular consumers and are considerably behind contract schedules.

Sulphuric—Complaints have been heard from out-of-town points over delayed shipments. These have come mostly from the makers of superphosphate. There appears to be no apparent easement in the supply of tankcars and the movement has been interrupted to large consumers. Production has been maintained at a satisfactory level to meet requirements and the delay has been the result of insufficient transportation facilities. Demand has continued active for both home and foreign uses. Export shipments for the first half of this year amounted

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to 8,987,692 pounds, compared with 16,356,548 pounds for the same time in 1946.

Non-Ferrous Metals

Copper—Market position appeared a little stronger under an exceptionally heavy demand from the wire mills. Buying interest from this source is said to be the chief supporting influence at present. Demand from the brass mills was described as steady but not of the pressure variety. Prices revealed no change from former levels. Export demand was reported relatively quiet.

Lead—Prices firm for all common grades of lead with supply position tight. The chemical grade was priced at 15.10c. per pound here and at 14.90c. per pound in St. Louis. Bureau of the Census placed August imports of ore at 7,607 tons and of pigs and bars at 10,692 tons.

Quicksilver — Spot quotations remained fairly steady throughout the past week but reports from the domestic primary market in the far west included a $3.50 per flask drop in quotations prevailing there. The local activity was restricted mainly to actual requirements and the whole business did not bulk very large at the end of the period. No change in the cartel price was noted.

San Francisco, Oct. 2.—Slight improvement in the volume of business was noted this week. However, little spot was available. Prices dropped to between $79 and $80 per flask, f.o.b. this city.

Selenium—Buying interest has remained active enough to keep available supplies at a relatively low level. Prices are quoted firm at the advanced level established in July at $2 per pound for 1,000-pound lots in cases.

Silver—Bullion prices followed a relatively steady course last week with demand and supply well in balance. The official closing price here was 71⅜c. per ounce.

Silver Bullion Price Range

	Per ounce— New York:	London
High	Mar. 6—80⅝c.	Jan. 2—55½d.
Low	June 20—59⅜c.	June 20—39d.

Zinc—Under release of September 25, the Bureau of Mines states that domestic slab zinc consumption dropped 5 percent in April. With the exception of galvanizers' all industry groups used less zinc; the largest decrease (17 percent) was at plants manufacturing rolled zinc products. The production of zinc dust in April totaled 2,751 short tons, 16 percent above the March output and the greatest monthly production since the beginning of the Bureau's monthly survey in May, 1941. Outputs of zinc oxide and slab zinc at domestic smelters declined 3 percent and 2 percent, respectively. Stocks of slab zinc at consumers' plants continued to gain and April inventories were the highest on hand since July 31, 1946. Zinc oxide stocks at producers' plants dropped 3 percent to the lowest level since September 30, 1944. Inventories of zinc dust at producers' plants and slab zinc at domestic smelters remained virtually unchanged. Total receipts of slab zinc at consumers' plants decreased 3 percent; galvanizers and rolling mills received more slab zinc but the increases were insufficient to balance losses at die casting plants and plants manufacturing brass and bronze products. Secondary slab zinc production at 11 operating secondary redistillation plants (10 in March) was 2,876 tons, including 1,048 tons of intermediate, 458 tons of brass special and regular high grade, and 1,370 tons of prime western. Production of all grades decreased.

Calco Technical Staff Addressed by Rideal

Prof. E. K. Rideal, director of the Royal Institute of London, was guest speaker at a recent meeting of the research and technical staff of the Calco chemical division, American Cyanamid Company, Bound Brook, N. J. Dr. Rideal, who is professor of colloid science at Cambridge University, spoke on "Mono Layer Films."

Southern Calif. ACS Addressed by Prof. Pauling

Recent research providing a better understanding of the strength, hardness and other fundamental properties of metals was described by Prof. Linus Pauling, director of the Gates and Crellin laboratories of chemistry at the California Institute of Technology, in a recent address to the Southern California section of the American Chemical Society.

Application of a recently formulated equation has indicated that metallic atoms are bound to one another by electrons which they share, he explained, pointing out that a similar mechanism provides the binding forces that govern the mechanical properties of organic materials.

Interpretation of metallic structure in accordance with the new equation provides a qualitative explanation of many of the properties of some of the most common metals, he declared. It is found that atoms of chromium, tin and manganese exist in two forms, small atoms with high combining powers, or valences, and large atoms with low valences, he stated, and in many metals each atom is attached to some of its neighbors by strong bonds and to others by much weaker links.

Although the association of metallic valences with interatomic distances and properties of crystals had led to the construction of a reasonably satisfactory theory, Prof. Pauling said, "it must not be forgotten that the whole treatment is essentially empirical in nature."

Standards Bureau Names Corrosion Section Head

The National Bureau of Standards has appointed Irving A. Denison chief of the underground corrosion section. In this capacity he will direct fundamental studies of underground corrosion, utilizing data from extended field tests. In addition, his section will attempt to develop materials that are better resistant to corrosion for applications such as gas-filled metallic cable sheaths.

Stauffer Chemical Publishes Carbon Tetrachloride Data

Stauffer Chemical Company has issued a new booklet entitled "Carbon Tetrachloride Properties and Uses," which contains both technical and general data concerning carbon tetrachloride and is intended to serve as a ready reference book for using this product.

The publication discusses the material's specifications, physical properties, azeotropic mixtures, vapor pressure-temperature relationship of carbon tetrachloride and other chlorinated hydrocarbons, solubility of water in carbon tetrachloride, stability, action on metals, solvent power, chemical properties, binary mixtures and the testing of carbon tetrachloride. Copies may be obtained at no charge from the company at 420 Lexington avenue, New York 17.

Atlas Powder Shifts Sann to Wilmington

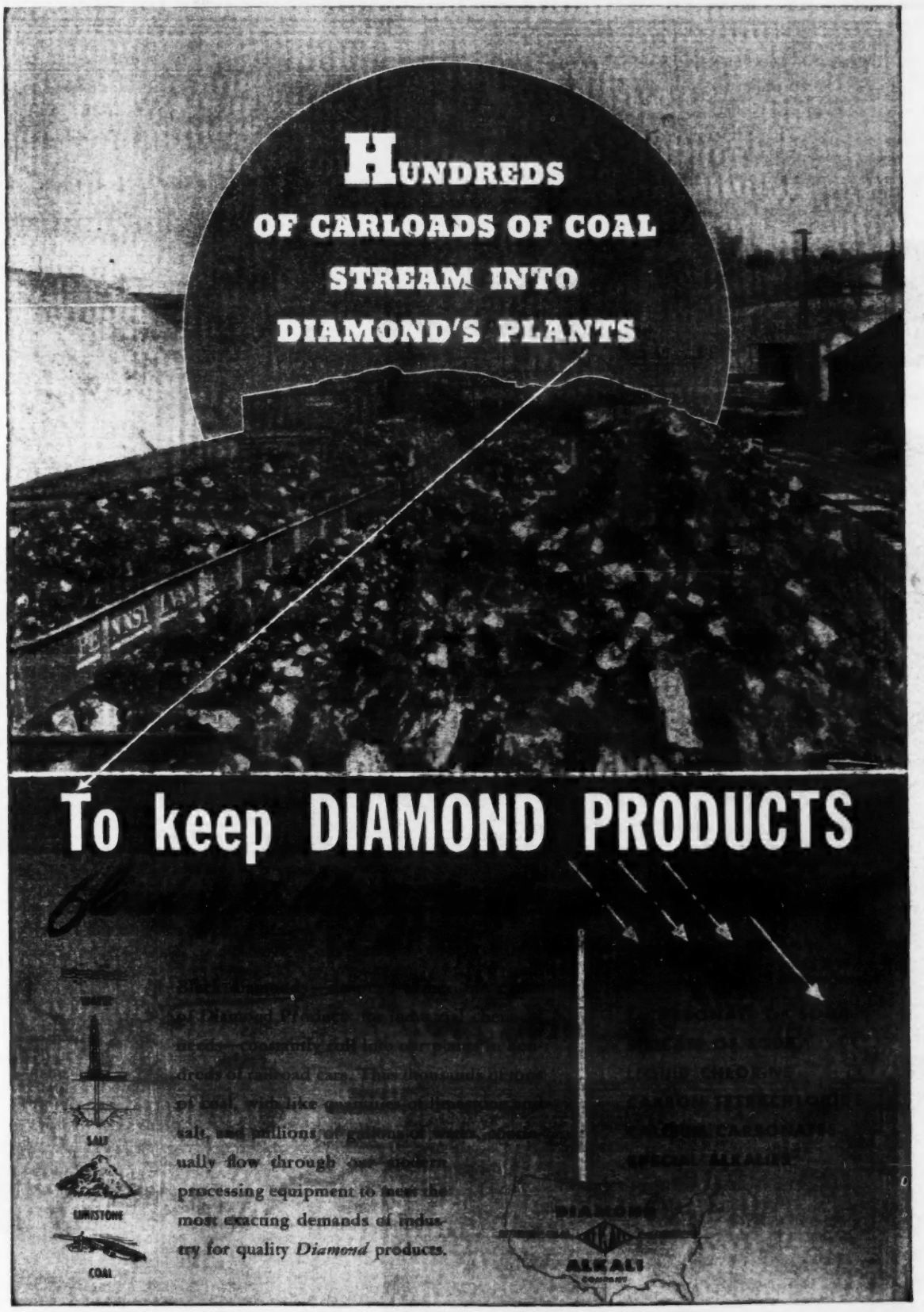
Atlas Powder Company's industrial chemicals department has promoted Edward W. Sann, Chicago district manager, to its general headquarters in Wilmington, Del. He has been associated with the department since 1936 and was made manager of the Chicago district shortly after his return from the Army in 1945.

Laurel G. Parkinson, who was technical representative in the Cleveland office of the Chicago district, succeeds Mr. Sann. Franklin L. Dailey, technical representative for the department in Wilmington, now serves the Cleveland area.

Trade Briefs

International Minerals & Chemical Corporation's 1946 annual report has been judged the best in the chemical industry by the judges in the annual report survey of "Financial World." Union Carbide & Carbon Company was second and E. I. du Pont de Nemours & Co., third.

American Can Company's research division, Maywood, Ill., claims that synthetic rubber compounds afford greater protection for products packed in tin cans than does natural rubber, and that natural rubber is unlikely to ever regain its pre-war importance in the manufacture of metal containers.



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Chemical Engineers

—Continued from page 7

to prepare the type of thinking on which peace is founded.

"One contribution we can make," he said, is to cultivate a world-wide view, to recognize the basic similarity of our human problems around the world, and to apply the creative type of thinking with which we have experience to the present unprecedented challenge."

Phenol Elimination

The problem of elimination of corrosive phenol from the waste liquids of chemical plants, which in the past has created a serious problem for sewage disposal plants, may be solved if a new process invented by M. P. J. Bogart and A. S. Brunjes, of the Lummus Company, New York, is successful.

Owing to the strong toxicity of the phenol, even in minute concentrations, sewage plants cannot handle successfully wastes containing this chemical, since it kills the bacteria needed for sludge digestion in sewage disposal operation. For cities obtaining drinking water from rivers, such as the Ohio and Mississippi, phenol creates another problem, since in passing through the sewage disposal plants of one city, it may flow, unchanged, down-river to contaminate the drinking water of another city. Chemical plant methods for pre-elimination of this material prior to its discharge into sewage lines are now very expensive.

The engineers found that phenol could be removed by adding common salt to the wastes containing the phenol, and then distilling this mixture at high pressures. The phenol is obtained as one of the products of the distillation in concentrations which allow it to be processed into a pure material. The new process will be valuable for gas manufacturers, coke producers, steel plants, manufacturers of synthetic phenol, and lubricating oil processors.

Industrial Growth

Industrial growth of the Niagara-Buffalo region will depend more upon the technical developments of chemists and chemical engineers than upon expansion of basic products, according to four chemical engineers, who made a report on this area.

Diversification of chemical products will be the key for future prosperity for the territory said the engineers, J. T. Rucker, R. B. MacMullin, R. L. Murray and D. L. Taylor, since out of the 1,500 establishments producing $1,000,000,000 worth of industrial goods, half of the amount is credited to the chemical, metallurgical, and allied products. The natural resources available to the 2,000 chemists and chemical engineers who are employed in the chemical industries of the area guarantee that such diversification will be forthcoming, they said.

"The Niagara Frontier," they continued, "is well established with respect to basic raw materials needed for the manufacture of chemicals and metals. Another important factor with respect to its industrial development has been its location with respect to the bulk of the United States market. It is estimated that close to 50 percent of the United States population lives within a 500-mile radius of Buffalo and Niagara Falls.

"Further chemical and metallurgical development in the area depends upon a number of factors. Expansion of the basic industries depends upon low cost power and it therefore appears that the fast growth period is over and the industry of the area has reached maturity. Further growth will depend upon the technical developments produced by the chemists and engineers and it seems most likely that further growth of the industry of the area will be diversification of products rather than large expansion of basic products."

Hydrogen Peroxide Use

A tool of war, high concentration hydrogen peroxide, developed by the Germans and duplicated by the Allies has great possibilities in the development of small power plants, according to G. G. Crewson and N. S. Davis, of the Buffalo Electro Chemical Company, Buffalo, N. Y.

"Research has been devoted to possible industrial applications of this new high concentrated hydrogen peroxide," the authors said. "The reduction of the water content from the bleaching grades has produced substantially a new chemical. Ninety percent hydrogen peroxide has certain applications for operating small power plants where the factors of space and weight per horsepower are paramount. It can also be used to supply additional oxygen to boost internal combustion engines to meet emergency conditions.

Although 90 percent hydrogen peroxide itself is not sensitive to shock, mixtures of it with certain organic solvents will produce powerful explosives. These mixtures have the advantage over such explosives as dynamite and nitroglycerine in that they can be transported separately to the scene of the demolition without any hazard, yet upon mixing, some of these hydrogen peroxide-organic solvent mixtures are as powerful as TNT and have the additional advantage that they produce no nitrogenous, poisonous gases."

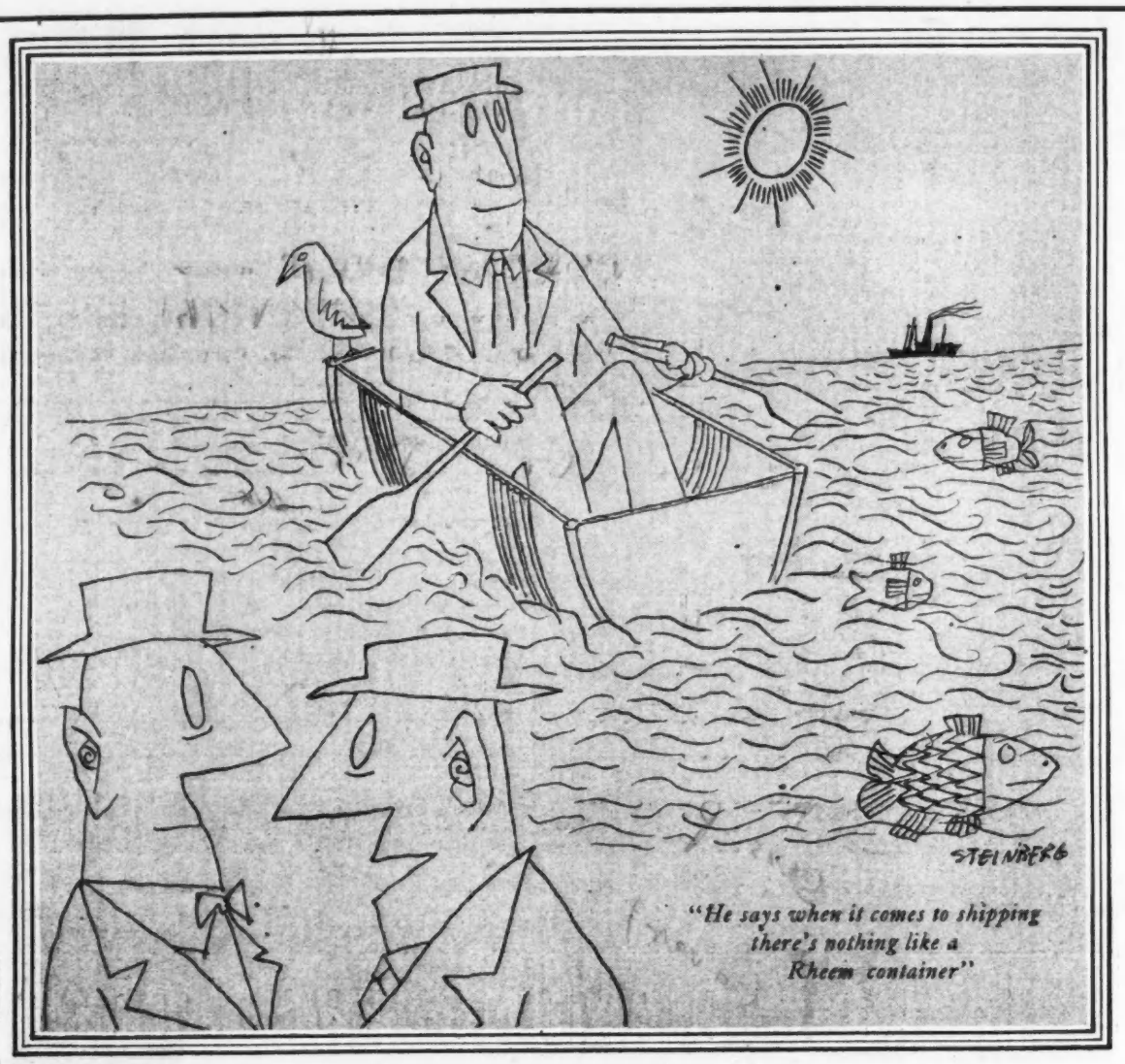
Solvent Recovery

Printing and dry cleaning industries are effecting large savings in their operating costs through the recovery of solvent vapors by use of activated carbon, according to R. E. Benson and P. Courouleau, of the Blaw-Knox Construction Company, Pittsburgh.

The authors reported that solvents which originally cost from 20 cents to 85 cents per gallon, could be recovered at a cost of 5 cents per gallon. These solvents are recovered by passing the air from the plant through activated carbon. The solvent, which has evaporated into the air, adheres to the carbon, and is later recovered. The authors stated, that it is possible, economically, to remove solvent vapors from the air when their concentrations are as low as one-third of a pound per 1,000 cubic feet.

Pulp Processing

Fundamental studies in chemical engineering by two professors of the Massa-



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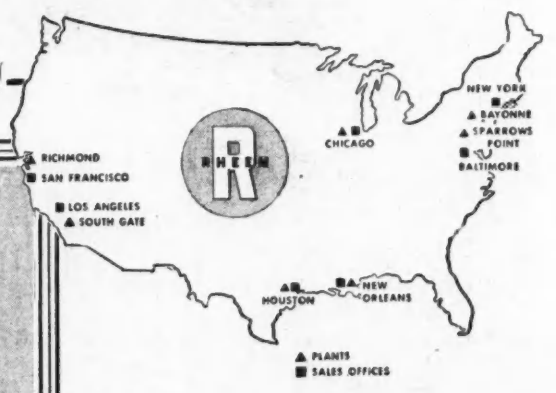

Rheem
MANUFACTURING COMPANY
Steel Container Division

chusetts Institute of Technology have helped to create more efficient processing equipment for the pulp and paper industry. The two Professors, J. E. Vivian and R. P. Whitney, presented the results of a highly technical engineering research on the absorption of chlorine in water.

Chlorine is absorbed into water to form a bleach for the paper mills, and the two men found that efficient equipment could not be designed because fundamental data on the absorption of chlorine into water was incorrect. A critical analysis of the chlorine-water system led to the development of new design methods for calculating the proper size of equipment for the absorption systems. The two authors stated that they expected the development to be applicable to other gas absorptions.

Trade Briefs

Agicide Laboratories, insecticide manufacturer, Los Angeles, plans to build a one-story steel frame warehouse at 4549 Bandini boulevard, East Los Angeles. Construction on the $28,000 building will not begin until next year.

National Carbon Company, New York, has purchased the surplus carbon electrode plant that it operated during the war in Columbia, Tenn., from the War Assets Administration. The plant, consisting of eight buildings and equipment, cost $1,637,000.

Dominion Alkali & Chemical Company, Ltd., a subsidiary of Dominion Tar & Chemical Company, Canada, has begun construction of a new chlorine and caustic soda plant at Beauharnois, Quebec. Operation is expected to begin on January 1, 1949.

Colonial Sugar Refining Company, Ltd., of Australia plans to establish a £1,000,000 cellulose products industry in Sydney to meet all domestic requirements. The start of production depends on the availability of building materials and plant equipment.

Herstein Laboratories Has New Facilities

Herstein Laboratories, Inc., has commenced operation of its new laboratory facilities at 128 Water street, New York. Enlarged and improved facilities are now available for industrial research and the preparation of rare chemicals for investigation and reagent uses.

Nitrogen Exports

—*Continued from page 3*

tons to Latin America, a total of 21,870 tons. Thus the quota to western Europe amounts to about 36,000 tons, exclusive of the amounts being shipped to Germany by the War Department from its ordnance plants production.

In addition to the 36,000 tons from the United States, Europe is also getting nearly 17,000 tons of nitrogen from Canada and other sources, making a total of around 53,000 tons.

According to the report of the Paris Conference, western Europe's import requirements of nitrogen for the 1947-48 year amounts to 290,000 tons, of which about 20 percent ,or approximately 58,000 tons, can only be met from the American continent. This is about 5,000 tons more than the quota from the United States and other American sources, which officials can be divided equally between the United States and Canada.

Western Europe has plans for a great increase in the output of fertilizers, the report of the Paris Conference states, which, in the case of nitrogen, will enable this area to reverse its position by 1950-51 from that of an importer to an exporter. It is estimated that the area may have as much as 107,000 metric tons over its needs by 1950-51.

The report said that nitrogen production, which was 960,000 metric tons in 1946-47, is to be increased to over 2,000,000 tons in 1950-51. Production of manufactured phosphatic fertilizers (in terms of P_2O_5) is to be raised from 1,400,000 tons in 1946-47 to 2,600,000 tons in 1950-51. The production of potash (in terms of K_2O) which was 847,000 tons in 1946-47, is to be raised to 1,600,000 tons in 1950-51.

"There remains nevertheless a big gap between supplies and total requirements of nitrogen and potash because the requirements are increasing rapidly," the report continues. "This gap can only be filled by imports from outside the area. It is not thought that as far as potash is concerned there will be any serious supply difficulty.

"In the case of nitrogen, at any rate in the first three years of the period under review, there remains an import requirement which can only be met by supplies from the American continent. In 1947-48 this requirement is of the order of 20 percent of the total requirement, but it diminishes to a small figure by 1949-50."

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U.S. Revenue Returns Increased in August

Bureau of Internal Revenue, Washington, reports taxes collected for the month of August, 1947, compared with August, 1946, included the following:—

	1947	1946
Coconut, etc., oils, processed	$1,189,691.64	$906,804.74
Distilled spirits, domestic, excise tax.	87,127,040.66	153,338,812.61
Distilled spirits, imported, excise tax.	6,321,589.97	9,660,961.04
Gasoline	45,551,490.50	39,196,558.34
Lubricating oils	6,921,698.02	6,093,151.21
Narcotics, including special taxes	42,355.81	41,572.75
Oleomargarin special taxes	607,412.67	484,508.66
Totals	2,848,299,240.46	2,735,890,964.88

Turco Products Advances Two in Technical Dept.

Turco Products, Inc., industrial cleaning compound manufacturer, Los Angeles, has placed Donald A. Keating in charge of the technical department of its Midwestern division, with headquarters in Chicago, and has named James D. Schwedler to take charge of the technical activities of its Southwestern division, with headquarters in Houston, Texas.

Professional Services

Analysis—Testing—Patents Formulations—Trademarks

(For further details see listings in OPD Green Book.)

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Assn. of Consulting Chemists & Chemical Engineers, Inc.
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Bjorksten Research Laboratories
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Bureau of Chemistry
2 Broadway, New York 4, N. Y.

Cleveland Chemical Engineering Service
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Colburn Laboratories, Inc.
431 S. Dearborn St., Chicago 5, Ill.

Di Cyan & Brown
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153 S. Doheny Dr., Beverly Hills, Calif.

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Evans Research & Development Corp.
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Food Research Laboratories, Inc.
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E. M. Laning Company
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LaWall & Harrisson
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Dr. Fred Linsker
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Molnar Laboratories
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Munch Research Laboratories, Inc.
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Orthmann Laboratories, Inc.
647 W. Virginia St., Milwaukee, Wis.

Public Service Testing Laboratories, Inc.
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W. S. Purdy Company, Inc.
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R. Steckler Laboratories
10111 Euclid Ave., Cleveland 6, Ohio

Stillwell & Gladding, Inc.
130 Cedar St., New York 6, N. Y.

Wiley & Company, Inc.
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Phila. Quartz Assigns Pierce to N.Y. Staff

The Philadelphia Quartz Company has added Albert C. Pierce to its sales staff in the Metropolitan New York area. Mr. Pierce, who joined the company in August, has just completed technical training in the uses of silicates of soda in industry. The company also announces that Everett W. Turley, previously sales representative in New York, has been transferred to the Chicago office.

Trade Briefs

E. I. du Pont de Nemours & Co. has leased three floors in a building at 248 West Eighteenth street, New York, for use of its Defender division.

Westinghouse Electric Corporation, Pittsburgh, has named Henry N. Muller, jr., manager of its educational department and has appointed Guy Klein to fill Mr. Muller's former post as manager of graduate student training.

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Named by Quaker Oats

William A. Webster has been named by the chemicals department of the Quaker Oats Company to take charge of nation-wide sales of furfural residue. Mr. Webster was formerly divisional sales manager with the Chilean Nitrate Sales Corporation for thirteen years, and previously held a similar position with the American Potash & Chemical Corporation.

German Chemical Industry Control Instruments Described

OPD Washington Bureau

An instrument incorporating a magnetic method for determining oxygen content in gas mixtures is one of the many described in detail in a comprehensive report on instrumentation and control in the German chemical industry now on sale by the Office of Technical Services, Department of Commerce. The report was prepared by four investigators for the British Intelligence Objectives Sub-committee, who made a two months' study of twenty-three German chemical factories and eighteen instrument firms in 1946.

Of the many instruments seen in Germany, the British investigators recommended ten as of sufficient merit to warrant consideration of their manufacture by British instrument firms. These were:—debromagnetic type flowmeter, Hartman & Braun photo cell recorder, Heraeus resistance thermometer element, I. G. piston type pressure differential recorder, Siemens piston type pressure recorder, hydrosuspended vessel type liquid density recorder, Martens induction coil level indicator, I. G. infra-red absorption meter, I. G. magnetic type oxygen recorder, and I. G. high-pressure bourdon tube.

Orders for the report, PB-75861, "Instrumentation and Control in the German Chemical Industry" (photostat, $13, microfilm, $4, 188 pages) should be addressed to the Office of Technical Services, Department of Commerce, Washington 25, D. C., and should be accompanied by check or money order payable to the Treasurer of the United States. Multilithed paper-bound copies of the report are available from Mapleton House, 5415 Seventeenth avenue, Brooklyn 4, New York, at $6 each.

Monsanto Names Booth To Dayton Research Dept.

Monsanto Chemical Company, St. Louis, Mo., has appointed Charles F. Booth senior research chemist at its central research department at Dayton, Ohio. Mr. Booth, who will be engaged in inorganic chemical research, has been serving as a principal chemist in atomic energy research at the Clinton laboratories, Oak Ridge, Tenn., and was formerly assigned to the company's laboratories at Anniston, Ala.

Nopco Offers New Booklet

Nopco Chemical Company, Harrison, N. J., has published "Interpretation of Analysis for the Layman," copies of which may be obtained without charge by writing the company's industrial advertising division.

Trade Briefs

International Printing Ink Corporation, Los Angeles, plans to build a one-story addition to its factory at 707 East Sixty-second street at a cost of $70,000.

Colonial Rubber Company, Ravenna, Ohio, has developed a new non-marking, non-skid rubber mat called "Stand-eze Softaire" for the relief of standing fatigue.

Bennett Gypsum Corporation, Bakersfield, Calif., has been organized with 2,000 shares of no par value capital stock. Principals are R. E. Bennett, Edwin E. Preazler and Louis R. Deadrich.

Stauffer Chemical Company, San Francisco, Calif., has obtained a permit for the construction of a warehouse building at 3200 East Twenty-sixth street, Los Angeles. The cost will be $12,000.

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German Dyestuffs Data Given in British Reports

OPD Washington Bureau

Additional comprehensive information on the processes and machinery used by I. G. Farbenindustrie in the production of dyes and dyestuff intermediates is contained in British reports now on sale by the Office of Technical Services, Department of Commerce. The reports were prepared by teams of investigators for the British Intelligence Objectives Sub-committee.

PB-77764, "I. G. Farbenindustrie A. G., Manufacture of Intermediates for Dyestuffs; Parts I and II" (photostat $33, microfilm $10, 492 pages), gives details on 253 intermediate processes used at I. G. Farben plants in Greisheim, Hoeschst, Ludwigshafen, Mainkur and Offenbach. The bulk of the information obtained relates to established manufacturing processes rather than to research development, the report states.

PB-69124, "German Dyestuffs and Intermediates Industry" (photostat $5, microfilm $2, 72 pages) describes the manufacture of triphenylmethane and azo dyestuffs and some intermediates at the Leverkusen plant. A few anthroquinone dyestuffs and intermediates processes are discussed, and most of the report is devoted to a description of the plant equipment and operation.

PB-75360, "German Dyestuffs and Intermediates Industry" (photostat $13, microfilm $4, 194 pages) deals with vat dyestuffs and intermediates manufactured at I. G. Farbenindustrie's Ludwigshafen plant. The report also discusses vat dyestuffs at the Hoeschst and Mainkur plants, and anthroquinone acid wool dyestuffs at Hoechst.

Orders for the reports should be addressed to the Office of Technical Services, Department of Commerce, Washington 25, D. C., and should be accompanied by check or money order payable to the Treasurer of the United States.

Fiedler Heads Research For Industrial Rayon

Industrial Rayon Corporation, Cleveland, Ohio, has appointed Stuart O. Fiedler manager of research. He will continue to function as a director of Bjorksten Research Laboratories, Chicago, but has resigned as manager of the latter organization's South Chicago branch.

Mr. Fiedler joined the Bjorksten company in 1945 and was made a vice-president in the following year. He had previously been associated with the Burgess Laboratories, Madison, Wisc., and E. I. du Pont de Nemours & Co.

Lilienthal Praises Monsanto For Atomic Energy Work

David E. Lilienthal, chairman of the United States Atomic Energy Commission, last week praised Monsanto Chemical Company which, he said, "has performed outstanding service to the people of the United States in managing the research facilities at Oak Ridge."

In a letter to Dr. Charles Allen Thomas, executive vice-president of the company, who was project director of the Clinton Laboratories, Mr. Lilienthal expressed the Commission's appreciation for the contribution which Monsanto made to the United States atomic energy program. "One of Monsanto's principal contributions," he stated, "has been the development of successful production processes for radio-isotopes." It was in this program, he said, that the technical and managerial skills of the company were clearly evident.

N.Y. Textile Chemists Observe 25th Anniversary

Twelve of the seventeen former chairmen of the New York section of the American Association of Textile Chemists and Colorists were guests at the section's twenty-fifth anniversary meeting held at the Swiss Chalet, Rochelle Park, N. J., on September 26.

Principal speaker at the meeting was Lew Hahn, general manager of the National Retail Dry Goods Association, who discussed economic trends in the textile industry. Dr. Henry Herman, of the General Dyestuffs Corporation, and president of the national association, brought a congratulatory message to the New York section from the parent body.

Dow Publishes Bromine Data

Dow Chemical Company, Midland, Mich., has published a booklet entitled "Bromine and Bromine Products," which contains technical data on more than 100 bromine products. Both organic and inorganic compounds are discussed, including newly developed products as well as the readily available line of heavy chemicals. Copies may be obtained from the company's branch offices in New York, San Francisco, Philadelphia, Los Angeles, Washington, St. Louis, Cleveland, Houston, Chicago, Seattle, Detroit or Boston.

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Textile and Leather Chemicals

Active demand for starches and dextrins featured the sizing materials last week and resulted in higher prices for potato starch, sago flour and medium grades of tapioca flour. Corn starch was unchanged, but firm and reflected the advanced trend of the grain. Domestic consumers purchased sizable quantities of starches for prompt and nearby requirements which reduced available supplies. Offerings of new crop potato starch have been readily absorbed and Idaho producers have withdrawn from the market and also raised prices fractionally. Reports from Maine stated that grinders were unable to accept business owing to the uncertainty of procuring potatoes for grinding purposes. Higher costs for sago flour replacements from primary centers brought out an active demand for supplies here and also advanced quotations fractionally. Consuming inquiry for tapioca flour continued active for spot delivery. Medium grades stocks were materially reduced and with the increased costs of replacements, prices were higher for spot supplies. Shipments from Brazil also were lifted fractionally.

Higher production costs and limited supplies have raised prices fractionally for acetic anhydride and makers also advanced sodium acetate, anhydrous and crystals. Steady demand for these materials has kept pace with the production, and the supply situation has been tight for some time. Bichromates continued in good request against current contracts. Export demand also was fairly active, though demand was not satisfied owing to scarcity of offerings from producers.

Market Trends

Prices Advanced

Acetic anhydride, ½c. per lb.
Albumen, edible, 5c. per lb.
Potato starch, ½c. per lb.
Sago flour, ¼c. per lb.
Sodium acetate, anhydrous, 1c. per lb.
crystals, 2c. per lb.
Tapioca flour, medium grade, ¼c. per lb.

Prices Reduced

None

Comparative Price Indexes

(100=August 1, 1914)

Last week.	Prev. week.	Last month.	Last year.
340.9	336.5	332.1	296.0

(For Current Prices see Page 9)

Chemicals

Aluminum, Acetate — Market remained firm under a steady demand, which continued to absorb the current output. Prices were firm.

Bichromates—Steady consuming demand continued to take the bulk of the production on current contracts. Export business was restricted owing to lack of offerings. Quotations were held at former levels. Total exports for the first half of 1947 were reported only 38 percent of shipments made in the same period in 1946. There were indications that exports would be larger during the second half of the year.

Chrome Acetate—Conditions in this market were steady and reflected the high cost of the basic material. Trading was moderate chiefly for prompt needs.

Sodium, Acetate—This market was firmer and prices were advanced. Anhydrous was increased to 9½c. to 11c. per pound, drums, according to quantity and crystals, 7½c. to 8½c. same basis. Consuming inquiry was active, with the demand keeping pace with the production.

Sulphonated Oils—Advancing costs of tallow and vegetable and fish oils have kept prices strong. Sulphonators have practically withdrawn from the market and were not quoting tallow grades in view of the steadily increasing costs.

Sizing Materials

Albumen (Egg)—Scarcity of supplies contined to restrict business. Market was firm with sales of edible flake reported at $2.40 to $2.45 per pound, on the spot, according to quantity and seller. Powdered ranged from $2.45 to $2.50, same basis. Technical grade was reported scarcer. Inquiry was fairly active, with holders of supplies restricting sales to regular customers. Prices were well held at $1.15 to $1.25, as to seller. Production of all grades was reported practically at a standstill. August production of liquid eggs total 21,676,000 pounds, a 52 per cent reduction from last year, while larger quantities of eggs were frozen this year than in 1946, Agriculture Department reported.

Albumin, Blood—Trading was fairly active for immediate and prompt delivery. Prices were well maintained at current levels. Supplies were adequate to meet present demand.

Corn, Sugar—Inquiry for prompt requirements was reported improved. Trading also more active. Market was steady at the recent price decline.

Dextrin, Corn—Although the market was unchanged, further advances in the grain has created a stronger tone. Active consuming demand absorbed the output. There has been a marked reduction in resale material. Quotations for all grades were steady at the recent reduction.

Egg, Yolk—Light stocks continued to limit business to small quantities. Demand was moderate, mainly for immediate delivery. Prices were firm, ranging from $1.20 to $1.25 per pound, depending upon quantity and seller.

Sago Flour—Higher cost of replacements resulted in increased demand for spot material and also advanced quotations ¼c. per pound last week. Supplies here were reported low and held at 8½c. to 8¾c. per pound, spot, as to quantity.

Starch, Corn—Domestic users continued to absorb the production and available supplies of resale material. Inquiry for export was light and spasmodic, but sellers were indifferent in view of the excellent demand from domestic consumers. Market was firm and reflected the upward trend of the grain. Visible corn supply increased 326,000 bushels to 6,725,000 bushels for the week ended September 26, compared with 4,732,000 bushels for the same time last year, it was reported by the Chicago Board of Trade.

Starch, Potato—Heavy demand for prompt and nearby delivery coupled with the scarcity of offerings for shipment further strengthened this market last week. Maine grinders were not offering because of the uncertain potato supply situation, and Idaho producers were sold well ahead and not disposed to offer to any extent. Prices were advanced, but were more or less nominal and ranged from 8½c. to 8.80c. per pound, carlots, New York delivery. Export inquiry was slow and trading of late has been limited owing to the higher market.

Starch, Wheat—Trading was reported fairly active for prompt requirements. Market remained steady, and reflected the firmness of the grain.

Tapioca Flour—Active consuming demand for spot delivery continued last week. Tone of the local market was firmer and medium grades were reported higher at 7¾c. to 8c. per pound, according to quantity, while high grades were unchanged at 8¼c. to 8½c., same basis. Shipments from Brazil were reported firmer and quotations were advanced for shipment from northern Brazil. Imports were light and totaled 460 bags at New York last week.

Tanning Materials

Chestnut Extract—Moderate quantities were moving into consuming channels against former contracts. Market was unchanged and steady.

Divi Divi—Interest in replacements continued slow. Offerings for shipments were reported more freely and were maintained at former quotations. Arrivals totaled 4,660 bags at New York last week for delivery on previous contracts.

Mangrove Bark—Lack of consuming interest continued for this material last week. Prices for shipment were unchanged and more or less nominal in absence of trading. Offers from primary markets were quite liberal. Imports were reported at 2,790 bags at New York last week and delivered on prior orders.

Myrobalans—While trading was inactive, primary markets were reported steady and unchanged. Consuming inquiry continued slow. Quotations for good quality J1 were maintained at current levels.

Quebracho Extract—Arrivals at Atlantic ports totaled 20,165 bags from the Argentine and 740 bags from Hull last week for delivery on previous contracts. Buying interest was light in view of the recent arrivals. Offers for shipments were reported freer and were well held at current quotations.

Tara Powder—Scarcity of offers for shipment continued to keep this market firm. Buying interest was active. Trading was quiet. Powder was nominal $225 per long ton, ex dock.

Valonia—Business was inactive last week. Shipments were reported unchanged and steady. Prices were more or less nominal in the absence of trading. Some 500 bags of valonia extract were received last week at New York for delivery on previous contracts.

For Late Market Developments, See Page 4

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Coaltar Chemicals

Price advances of 3 cents per pound on phthalic anhydride by the remaining large producers, following the lead set by other producers some three months ago, made the quotations on this chemical uniformly at the higher level of recent quotations. Increased labor and materials costs touched off the initial price rise, and mounting costs have forced other producers to fall in line.

Most producers of benzol held prices firm, despite the price advance of 2 cents per gallon effective October 1, made by at least two large producers.

Coaltar exports this year have been abnormally heavy despite the critical shortage of coaltar in this country, amounting to some 26,000,000 gallons during the first seven months of this year. This is some 10,000,000 gallons in excess of total exports for 1946. Most all of the exported coaltar has been shipped to France. Domestic supplies were very scarce, but good utilization of our supplies was being made. Some 86 percent of coaltar was being refined or otherwise processed. Approximately 12 percent of it was being used in open hearth operations, and less than 3 percent of it was being used as a fuel.

Creosote production this year was predicted to approach the peak levels of recent years, and for the first seven months of this year totaled from all sources some 95,338,513 gallons. In addition imports during this period were very substantial, giving an overall supply picture that was very encouraging. Some quarters expressed the feeling that the market was still quite tight, while in other quarters it was felt that supply was about to be balanced with demand.

Cresols and cresylic acid were still quite tight, and for the second consecutive week no acid arrived from England.

A serious naphthalene shortage continued to prevail despite the fact that production during the first seven months this year totaled 19,261,015 pounds by tar distillers and coke oven operators. During the past few months phenol production has been up very appreciably, which accounts for the somewhat eased condition of the market. Pyridine remained tight.

Steel operations for the week beginning September 29 were up slightly, being set at 94.4 percent of ingot capacity against the previous week of 94.1 percent, according to the American Iron and Steel Institute. One month ago the rate was 92.4 percent.

The current rate was the highest the industry has attained since the week beginning August 4. The highest rate the industry has attained this year was the week beginning June 2, when the scheduled rate was 97 percent.

Output at the current rate was equivalent to 1,651,900 net tons of ingots and castings, compared with 1,646,700 tons the previous week, 1,616,900 tons last month, and 1,589,700 tons last year.

Market Trends

Prices Advanced

Phthalic anhydride, 3c. per lb.

Prices Reduced

None

Comparative Price Indexes

(100=August 1, 1914)

Last week.	Prev. week.	Last month.	Last year.
136.2	134.8	134.8	128.2

(For Current Prices see Page 9)

Basic Products

Benzol—Most major producers of benzol held prices firm, and did not go along with an announced price rise made two weeks ago by two producers effective October 1. This held the tankcar price structure currently in the range of 19c. to 21c. per gallon, freight allowed up to 2c. per gallon, with most sellers quoting at the 19c. level. Coke oven operators held uniformly to the lower level, and this source accounts for well over half of the total production.

Supplies were reported to be in fair balance with current demands. With heavier demands next year for chemical syntheses, it was predicted that the market would tighten very appreciably unless expanded production could be effected. Adversely affecting this volume of production next year will be the speed with which steel producers adopt a new method of furnace operation now contemplated, which will cut down coke consumption by approximately one-third. Consequently the benzol and other chemicals resulting from such diminished coke oven operations will be reduced.

Coaltar—Despite a production of coaltar which from all sources fell far short of meeting the demand of this basic material for the chemical industry, prices held firm. While coaltar is one of our very critical materials, needed for manufacture of many intermediate chemicals vital to industry, our country has seen fit to export some 26,000,000 gallons during the first seven months of this year. These exports are some 10,000,000 gallons above the total exports of 1946. It is to be noted that of the 26,000,000 gallons of coaltar exported during slightly over half of this year, some 24,000,000 gallons have been shipped to France, presumably for French consumption. These figures based on the Department of Commerce releases, undoubtedly explain to some extent the tight situation prevailing in the current market.

Of the coaltar produced, some 86 percent is refined or otherwise processed in the chemical industry. Compared with former years, the amount of coaltar being used as fuel in boiler and furnace operations in steel mills is low. This has been a trend over the past several years. Last year some 11 percent was used in open hearth steel operations, and less than 3 percent was used strictly as a fuel.

Creosote Oil—Demand from the wood preservative industry for preservation of ties, poles, and other structures requiring preservation was strong. Supplies were reported to be tight in some quarters, but the overall picture of creosote production based on both coke oven and tar distiller operations indicated that production for this year would compare very favorably with production in former peak years. Production of coke oven operators as reported by the Bureau of Mines totaled 22,766,328 gallons during the first seven months of 1947, while for the same period the production of coaltar distillers amounted to 72,572,185 gallons, according to the United States Tariff Commission. This grand total for the period under review of 95,338,513 gallons indicates that this year's production of creosote oil will be very substantial and near peak production of former years. In addition there was imported, according to the Department of Commerce, some 26,000,000 gallons during the seven months. In view of the several million gallons of other chemicals such as copper naphthenate, parachlorphenol, and similar wood preservative treatments, it would appear that wood preservers need not be too concerned regarding availability of creosote supplies.

The feeling was expressed in some quarters that with the British need for dollars, imports would continue strong and perhaps increase.

Imported last week from Sydney, Australia, were 225 drums of creosote oil.

Cresylic Acid—For the second consecutive week, there were no imports of cresylic acid reported from England. Some 10 drums arrived from Sydney, Australia. There were also imports from Hull of 68 drums of coaltar acids, and 39 drums of coaltar acid distillate.

Demand for cresylic acid remained extremely heavy under market conditions of short supply with no relief soon expected. The synthetic resin and plasticizer industries were hard pressed to supply even a part of the demand for products based on cresols and cresylic acid. Prices were unchanged on the market for domestic material. Imported acid prices were unstable.

Naphthalene—The naphthalene market remained essentially unchanged last week. Demand for the chemical intermediate grades was very strong for the production of phthalic anhydride and other intermediates. Prices held firm at their current levels.

Information released by the Bureau of Mines and the United States Tariff Commission listed the July production of crude naphthalene by tar distillers at 18,685,204 pounds, and refined naphthalene at 9,075,254 pounds. During the same month, coke oven operators produced 8,064,038 pounds of crude naphthalene.

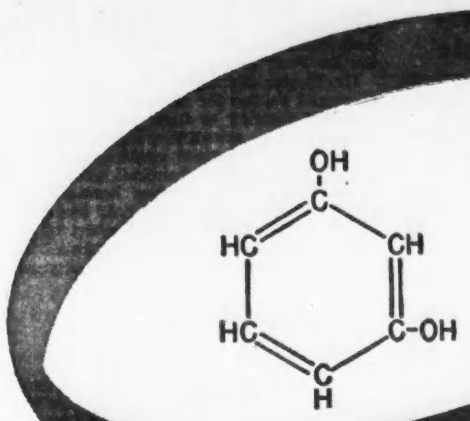
Total crude naphthalene production from

Coke By-Products

Estimates of by-product cokeoven operations in the week ended September 27 indicate the following output of by-products from that source:—

Ammonia liquid NH_3	lbs.	1,141,256
Ammonia sulphate	lbs.	29,630,268
Benzol	gals.	3,733,888
Coaltar	gals.	13,851,520
Creosote oil	gals.	770,867
Naphthalene, crude	lbs.	1,830,809
Phenol	lbs.	216,896
Toluol	gals.	746,777
Xylol	gals.	168,627

For Late Market Developments, See Page 4



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all sources during the first seven months of 1947 was 190,261,015 pounds, consisting of 135,782,386 pounds produced by tar distillers and 54,478,629 pounds produced by coke oven operators. Production of refined naphthalene by tar distillers during the first seven months of this year totaled 60,625,759 pounds.

Phenol—As a result of steadily increasing production of phenols, the phenol market has eased slightly. However, demand is such that the market could ease quite a bit more before any great impression on the supply situation would become effective. Prices on U.S.P. synthetic material was still in the range of 10½ cents to 11½ cents per pound in tankcars.

Production for July amounted to 24,701,138 pounds which was the highest figure so far this year. February production was listed at 15,731,032 pounds. Early production this year was in the general range of 19,000,000 pounds, whereas May, June and July figures were close to 24,000,000 pounds, which explains the eased supply position. Total production of phenol, both natural and synthetic, for the first seven months of this year totaled 147,842,604 pounds, according to the statistics released by the Tariff Commission.

Pyridine—The chemical intermediate grade of basic pyridine continued short at firm prices last week. Total production of crude pyridine by tar distillers during the first seven months of 1947 totaled 397,974 gallons. July production was 61,001 gallons. Production of refined pyridine from all sources was 80,789 gallons during the first seven months of this year.

Toluol—Total production of toluol from all sources, according to a Tariff Commission release, was 32,444,520 gallons during the first seven months of 1947. Of this total, 15,061,431 gallons was produced by coke oven operators, and 17,383,089 gallons was produced from all other sources. Prices were firm.

Xylol—Xylol supplies were ample to meet current demands in a steady market last week. Production by coke oven operators was up a fraction of a percent during July and amounted to 560,917 gallons. During the first seven months of this year coke oven producers accounted for a volume of xylol amounting to 4,234,790 gallons. Added to this during the same period was production from coaltar and petroleum amounting to 25,995,723 gallons, making a total toluol production for the period of 30,230,513 gallons.

Intermediates

Dinitro-orthocresol—Some 52 kegs of dinitro-orthocresol were imported last week from Sydney, Australia.

Meta-para cresol—Demand from synthetic resin manufacturers for cresols, together with that of other users, far exceeded the available supplies. A strong market prevailed at firm prices.

Phthalic Anhydride—All major producers of phthalic anhydride, after approximately three months of production and sale of material at varying prices ranging in carlots from 14½c. to 17½c. per pound, have established their individual prices at the higher level. Increasing costs of labor and materials forced producers to up the price level. This effect first made itself apparent early in July when a major producer announced a price rise of 3c. per pound. This was followed approximately one month later by a similar price rise announced by another major producer. It was noted that labor costs were a significant factor in this rise, since both producers had recently emerged from a condition of strike bound plants resulting in new higher wage contracts. As labor and material costs continued to mount, other producers were placed in the position of having to go along with these prices rises.

Effective October 1, all large producers of phthalic anhydride are quoting 17½c. per pound in carlots and 18½c. per pound in less than carlots, freight equalized. In some cases contract customers are still protected until November at the old price level. In other cases, this contract protection has already expired.

Demand continued heavy under a short supply situation by virtue of the shortage of naphthalene, and no immediate relief was in sight. Some production from orthoxylene was being stepped up, but the percentage of material manufactured from this source was only a small percentage of the total. However, one West Coast producer of phthalic anhydride who utilizes orthoxylene as the base for production, has announced expanded plant facilities soon to be completed, which will approximately double their current output.

H. E. Johnson has been appointed Chicago district sales manager of Alloy Steel Products Company, manufacturer of corrosion resistant valves and fittings, Linden, N. J.

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Fertilizer Output in U.S. Seen at Peak in 1947-48

Fertilizer production in the United States will reach at least 17,000,000 tons, an all-time record, in 1947-48, F. S. Lodge of the National Fertilizer Association, predicted in a report to the American Chemical Society. An output of well over 20,000,000 tons would be possible with the plant facilities now available, if no shortages of labor, transportation, or raw materials developed, he declared.

Consumption for the year ended on June 30, 1947, approximated 16,000,000 tons, or more than double the average of 7,350,000 tons for the year 1935 to 1939, according to Mr. Lodge.

"Past history reveals that the demand for fertilizer has closely parallelled farm income," he states. 'Farm income for 1947 is the highest on record. Income for 1948 promises to be even greater, thus suggesting the greatest demand for fertilizer that the country has ever known. Unless labor or transportation shortages seriously interfere, it appears that practically all of our national requirements for fertilizer will be met."

A continuing increase in the plant-food content of fertilizers also is forecast by Mr. Lodge. Reporting that the industry has been accused of trying to keep fertilizers of low plant-food content on the market, Mr. Lodge asserts that "just the contrary is true." For more than twenty years, he says, the industry has advocated raising the plant-food content of fertilizers "as rapidly and as much as the economic use of available materials would permit and agronomic research advise."

Japan Entry Approval Given Second List of U.S. Traders

OPD Washington Bureau

A second list of American business men approved for entry into Japan for the purpose of carrying on private trade with that country has been announced by the Office of International Trade, Department of Commerce. Included on the list are:—

G. W. Moyers, International Minerals & Chemical Corporation; J. G. Thompson, International B. F Goodrich Company; Benjamin W. Shipman, American Agar & Chemical Company; Otis D. Terrell, Tobacco Products Corporation (China); Urban G. Frondof, Ault & Wiborg Company; William Keylard, J. Berlage Company, and Paul W. Bogikes, E. R. Squibb & Sons International Corporation.

Chemical Workers Weekly Earnings Increased in July

Weekly earnings of factory workers in chemical and related fields showed a light increase in July, as compared with June. A breakdown of the weekly earnings for the chemical and allied industries follows:—

	Weekly		
	July, 1947	June, 1947	May, 1947
Chemical and allied products	$50.96	$50.59	$49.80
Ammunition	50.42	49.62	49.12
Chemicals	57.73	56.80	56.35
Cottonseed oil	35.38	35.83	35.29
ticides	43.50	43.49	43.19
Drugs, medicines, insec-			
Explosives, safety fuses	56.47	54.77	53.31
Fertilizers	37.04	36.41	36.76
Paints and varnishes	53.37	52.81	52.50
Petroleum refining	64.12	62.17	60.01
Rayon, allied products	48.69	48.63	48.37
Soaps	56.28	57.98	55.19

Fire Extinguishers Offered For Sale

OPD Washington Bureau

About 58,000 war-surplus, unused, one-gallon fire extinguishers, originally made to government specifications by nationally-known manufacturers and approved by the Underwritrs' Laboratory, are being offered for sale at fixed prices in seven War Assets Administration regional offices.

WAA said the extinguishers are especially suitable for use in factories, garages and filling stations, railroads, electric light and power plants, hospitals, general stores, warehouses, public buildings, mills, trucks, buses, electric locomotives, tractors, gasoline power boats, etc.

Wholesalers may purchase these fire extinguishers for $10 each, large retailers for $11.90 each, and small retailers for $12.50 each. The minimum purchase for all trade levels is three extinguishers. Prices are f.o.b. location. Locations of regional inventories are as follows:—Atlanta 47, Cincinnati 132, Cleveland 3, Kansas City 14, Richmond 690, Salt Lake City 49,939, and San Francisco 7,027

Chemical Market Research Methods Discussed by Vogler

The chemical industry could combine profitably marketing research with its years of experience in technical product research to guide sales efforts and reduce distribution costs, H. J. Vogler, director of marketing for Day & Zimmerman, Inc., engineers, Philadelphia, told the Purchasing Agents Association of Wilmington at a meeting in the Du Pont hotel on September 29.

Mr. Vogler discussed a series of examples of recent studies for clients in the chemical industry relating to those marketing problems solved by scientific marketing research. He said that by these studies, in each instance, producers of chemicals were enabled to determine precisely the heretofore unknown sales volume potentials for specific products as well as prices, extent of competition, preferred channels of distribution, and sales forecasts for a number of years.

Sterol Derivatives, Inc., Formed in California

S. S. Carlat, formerly partner and general manager of the Coast Chemical Company, has announced the formation of Sterol Derivatives, Inc., Alhambra, Calif., for the purpose of research, development and production of steroid hormones and other fine chemicals for use in pharmaceutical manufacturing. Dr. E. Leon Foreman, formerly director of research for Lakeside Laboratories, has been named vice-president and director of research of the new organization.

Chemical Firms Dividends Rose Sharply in August

OPD Washington Bureau

Publicly reported cash dividend payments by United States chemical corporations totaled $16,500,000 in August, compared with $12,500,000 in August, 1946, according to the office of business economics of the Department of Commerce. Dividend payment for the three months ended August 31 amounted to $91,200,000, against $75,200,000 in the similar period last year.

20th Century Fund to Make Case Study of Brazil

Twentieth Century Fund has selected Brazil as the subject of the second in its series of case studies on ways and means in which American financial aid and technical skills can assist other countries in achieving higher standards of living. Dr. George Wythe, on leave from the Department of Commerce, will direct the survey.

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Agricultural Chemicals

Higher prices were made effective for contract shipments of cyanamide and domestice sodium nitrate on October 1. Ammonium sulphate has remained firm at the recent advance with more demand than supply at the present time. Shipments of potash have been confined to regular contracts, but there has been no easement in the inquiry for additional quantities and a similar condition exists in ammonium nitrate. Normal superphosphate is in tight supply in this area while demand for triple-superphosphate is said to be about five times greater than current output. Ammonia-nitrate-dolomite compound has been advanced to a higher selling level with the supply exceedingly short.

Dried blood registered another advance during the week under buying for feed uses although demand for other packing-house products appeared to have relaxed to some extent. Supplies of fish meal in the Baltimore area were limited and sales were made at higher prices. No additional transactions in castor pomace were reported. A major producer has reduced prices for chlordane.

Nitrogenates

Ammonia-Nitrate-Dolomite — This compound was revised to a higher selling level on October 1. The bulk price is $33.50 per ton and $37.50 in 100-pound paper bags f.o.b. works.

Ammonia Sulphate—Current production insufficient to meet requirements promptly. Buying conditions continued tight as a result of short stocks. Prices for shipment firm at former levels.

Bone Meal—Feeders have made purchases but buying movement not sufficient to advance prices. Steamed grades commanded the most attention during the week.

Cyanamide—Prices were advanced October 1 for contract shipments of the fertilizer mixing grade and the pulverized grade. The market is now established at $2.15 per unit for the former and at $2.05 per unit of nitrogen for the latter f.o.b. the works. Higher producing costs were responsible for the advance.

Dried Blood—Early sales were reported at $10 per unit of ammonia but suppliers here named $10.50 later with Chicago quoting $11. Buying interest from the feed trade was not as active as formerly noted while the stock situation appeared tighter.

Fish Meal—Sales reported at higher levels in the Baltimore area. It is expected that fishing operations will terminate shortly and the supply situation has become tighter. Sales were reported at $140 per ton. Scrap was tight with prices nominally unchanged.

Hoof Meal—Market situation quiet with no new sales reported. Sellers named $8.50 per unit of ammonia with buyers not inclined to meet this figure during the week.

Nitrogenous Material—Prices continue to cover a relatively wide range for this synthetic tankage. Prices of $4.60 per unit of ammonia in some of the eastern areas extend upward to $6.60 in the West with contract sales reported at both figures.

Sodium Nitrate—Higher prices were made effective October 1 for domestic nitrate. The market is now established at $40.50 per ton for bags, carlot shipments and at $37 per ton for bulk f.o.b. the works. The advance is primarily the result of increases in the cost of coke, coal, labor and freight rates. Imported nitrate has continued firm at the advanced level recorded in August.

Tankage—Prices held at the recent advance with sales reported at $12 per unit of ammonia. Demand from the feed trade slowed down to some extent with sellers showing no disposition to increase offerings.

Phosphates

Phosphate Rock—Firm and in steady demand with shipments from supply sources confined chiefly to standing contracts. Department of Commerce states that exports of western phosphate rock increased 14 percent in 1946-47, the 236,634 tons shipped all going to Canada. Further expansion in activity in that field has been prompted by the War Department's purchase of sizable quantities of phosphate rock for shipment to Japan. Supplies of rock are said to be arriving in Japan faster than that country is able to utilize them, processing being limited by the shortage of sulphuric acid.

Superphosphate—Production is selling rapidly enough in the East to prevent any easement in buying conditions. Some backing-up of material was reported in the South and Southwest as a result of insufficient transportation facilities. Triple has continued exceedingly tight with demand considerably ahead of current output.

Market Trends

Prices Advanced

Ammonia-nitrate-dolomite compound, bags, $4.50 per ton.
Cyanamide, 15c. per unit of nitrogen.
Dried blood, 50c. per unit of ammonia.
Fish meal, $2 per ton.
Sodium nitrate, domestic, $5 per ton.

Prices Reduced

Chlordane, agricultural grade, 25c. per lb.
refined grade, 30c. per lb.

Comparative Price Indexes

(100=August 1, 1914)

Last week.	Prev. week.	Last month.	Last year.
71.9	71.8	71.6	72.1

(*For Current Prices see Page 9*)

Potashes

Production is said to be in balance with contract schedules but there has been no relaxation from the desire to increase commitments or in the disposition to request the transposition of forward shipments to those nearby. Boxcar shortage has interefered with the movement in some areas and the transportation outlook cannot be construed as favorable at this time.

Berlin advices (Aneta) state that the Soviet zone of Germany will export 40,000 tons of potassium—15 percent of annual Dutch needs—to the Netherlands in exchange for Dutch superphosphate, according to an agreement signed between the Soviet Military Administration and the Netherlands Food Import Bureau.

Insecticides

Market conditions have continued relatively quiet during the past week. Export figures released by the Department of Commerce show a total of 1,141,000 pounds of calcium arsenate for the first six months of 1947. The largest buyers were El Salvador with 676,000 pounds, and Peru with 314,000 pounds. For the corresponding period in 1946, foreign shipments amounted to 3,153,000 pounds, of which 2,460,000 pounds went to France.

Exports of lead arsenate during the first half of 1947 were 929,000 pounds, with Brazil taking 323,000 pounds and Cuba 184,000 pounds. The total for the same time in 1946 was 1,527,000 pounds, a decrease of 29 percent.

Imports of rotenone materials for the first six months of the year showed a total of 8,232,000 pounds, compared with 2,660,000 pounds for a like period last year. According to official information, Peru exported 5,950,000 pounds of derris root in the period from January to April, all coming to the United States.

Production of benzene hexachloride showed an increase in July for the seventh consecutive month, according to figures released by the Tariff Commission of the Department of Commerce. The total registered 599,039 pounds, compared with 566,056 pounds in June.

Output of DDT in July amounted to 4,962,453 pounds, compared with 5,320,221 pounds in the preceding month.

Chlordane prices have been reduced by a major producer. The agricultural grade is now priced at $1.50 per pound in carlots, and the refined at $1.65, freight allowed.

Production of the arsenic based chemicals may be delayed later than usual this year on account of the high prices named for imported arsenic and the shortage of domestic material. Prices named for arsenate of lead and calcium arsenate last season resulted in a lot of conservative buying and also a practical depletion of field inventories. There have been no recent developments indicating an increase in arsenic supplies for next season or lower prices. It is stated that about the only industry that can use imported arsenic at 9c. or 9½c. a pound is the glass and ceramic.

Sulphur and Pyrites

Apparent sales of native sulphur in July were placed at 400,389 tons by the Bureau of Mines. The total for the preceding month amounted to 398,242 tons. Total sales for the period from January through July were 2,754,024 tons, against 2,283,589 tons for the same time in 1946. Exports of crude sulphur from January through June were given by the Department of Commerce at 679,727 tons, compared with 507,873 tons for the corresponding time in 1946. Pyrites continued firm but unchanged.

For Late Market Developments, See Page 4

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Drugs and Fine Chemicals

Price activity grew considerably last week in the market for drugs and fine chemicals. Early in the period a sharp rise in quotations on caffeine alkaloid, citrated caffeine, and caffeine hydrobromide was announced. Amyl acetate was also advanced. Higher quotations were established October 1 on acetone and methylpentanediol. Furthermore, contract prices on ethylene dichloride, ethyleneglycol, diethanolamine, monoethanolamine, propylene dichloride, and triethanolamine were advanced, effective October 1, to price levels that earlier had been made effective for spot sales. Finally, skimmed milk powder was raised fractionally and great scarcity of whole milk powder, especially of that made by the roller process, was noted. Prices for theobromine alkaloid and salicylate and on theobramine sodio-acetate and sodio-salicylate had been advanced late in the previous week.

Another development in the period under review was the restoration of firm prices and offerings by the leading domestic maker of quinine alkaloid, bisulphate, dihydrochloride, hydrobromide, phosphate, salicylate, and sulphate. Also on quinine and urea hydrochloride. This development was the first sign of a returning normality absent from the quinine market since the beginning of the war brought scarcity of goods and strict allocation of the insufficient supply. At an early date, firm prices and offerings of cinchonine and cinchonidine were expected. Allocation of quinidine alkaloid and sulphate was expected to continue because of their scarcity.

Soapmakers raised prices on soap and soap products, a fact directly related to the production of glycerin and, possibly later on, to the price therefor. The advance in soap prices was attributed to the very sharp rise in prices to be paid for such raw materials as oil, fats, tallow, caustic soda, soda ash, and silicate of soda. Glycerin is the byproduct of soapmaking, the result of recovery operations, and the effect of higher prices for soaps remains to be developed in the glycerin market.

Acetoacetanilide—When sold in lots of the average size traded in, the price remains at 60c. per pound, but it is also possible to purchase some quantities as low as 57c. per pound. There has been no price change in the article.

Acid, Arsenous—Not in especially large demand of late, this item has been none the less steady in price and the jobbing trade reported locally last week was done on the basis of fully stable prices.

Acid, Citric—Movement into consuming channels was in line with the size of requirements at the early fall period. The supply was fully equal to the needs of buyers and the calls were supplied at very steady prices that show some of the strength now prevailing in the raw material quotations.

Acid, Gallic—Takings of manufacturing consumers had a steady, well maintained quality that contributed to the firmness that production costs had attached to prices for some time back. Supply was meeting demand in very good shape, according to distributors.

Acid, Hydriodic—The stability prevailing in the cost of production, and particularly in raw material prices, has carried over into this acid regardless of the fact that the current needs of buyers to no run to more than jobbing totals.

Acid, Pyrogallic—Although orders were above ordinary size, they were numerous enough among distributors to give prices a very firm undertone and to eliminate most signs of competition likely to effect unsettlement of the prevailing price structure.

Acid, Tannic—Demand was normally active. The bulk of trade was along routine lines that came to a market not abundantly stocked with prompt delivery goods but still able to cope with the current volume of request in a fairly prompt and satisfactory way.

Acid, Thioglycolic—Since the last change in the quotations named on refined and technical material—a movement that set a new low on this article—the market has held to a very steady position and it was so reported by prominent suppliers during the past week.

Aconitine—Jobbing business was steady. The calls came in normal number and for normal quantities. Supplies showed a relatively high cost of production, a fact that accounted for the very firm price position of the material throughout the past week.

Market Trends

Prices Advanced

Acetaldehyde, 2½c. per lb.
Acetone, ½c. per lb.
Aldol, denaturing grade, 3c. per gal.
Amyl acetate, 3c. per lb.
Argols, $3.50 per 100 kilos.
Caffeine alkaloid, 50c. per lb.
anhydrous, 50c. per lb.
citrated, 25c. per lb.
Crotonaldehyde, 5-gal. drums, 1½c. per lb.
Lanolin, 2c. per lb.
Methylpentanediol, ½c. per lb.
Milk powder, skimmed, roller, ½c. per lb.
spray, ¼c. per lb.
Sucrose octa-acetate, denaturing grade, 5c. per lb.
technical, 5c. per lb.

Prices Reduced

None

Comparative Price Indexes

(100=August 1, 1914)

Last week.	Prev. week.	Last month.	Last year.
255.8	254.3	252.2	219.6

(For Current Prices see Page 9)

Adeps Lanae—The market has eased under a rather more forceful competition between sellers, and quotations have become lower by 2c. per pound, making the cosmetic grade of anhydrous material 25c. per pound and USP anhydrous, 23c.; cosmetic grade, hydrous, 23½c.; USP, 21½c.

Alcohol—Demand for all grades of denatured alcohol was reported good with the domestic manufacturers. Their current production is meeting needs sufficiently well to permit the distillers to confine their transactions to material of their own production and to permit them at this time to avoid drawing on the stocks of Cuban made alcohol owned by, in store, and still to be delivered to the government stockpile. The trend of blackstrap molasses prices is definitely upward and there does not seem to be any difficulty in selling the lots offered alcohol makers by the government agency handling the blackstrap sales. It may be that if the molasses price gets high enough, the sale of government owned alcohol may be assisted in some degree.

Aloe—A much steadier market has been developing since the recent price declines, and throughout the past week transactions at full market quotations were said to be the rule because of the absence of much chance for price competition among holders of the item.

Antipyrene—Reports show that the article is in as tight a position as it has been for a very long period of time. Demand outruns production and signs of the latter catching up with the former are lacikng at this time. Pricewise, the market was stable.

Ammonium Chloride — Movement continued to gain moderately. The season of largest consumption is not far off and numerous distributors are now covering their probable requirements during the coming winter.

Amyl Acetate—The tightness gets tighter and the demand shrinks not the least. The result is a strong market in which buyers are lucky when any delivery on new orders is at all possible. Prices were higher; tanks, 27c. per pound; drums, carlots, 28½c.; less carlots, 29½c.

Amyl Chloride—Mixed amyl chlorides have prevailed at unchanged prices for a very long period of time and the producer did not report any change in the schedule last week. Stability was apparently undisturbed.

Argols—Prices for this commodity have risen, the present quotation being $28.50 per 100 kilos, 100 percent purity. This rise in basic raw material has not brought any change in the price schedules on tartrates but to some extent they have become firmer at all points.

Atropine—Production costs hold rigidly to a comparatively high level and the result is very firm prices that prevail regardless of the volume of demand. The latter has been reasonable steady for some time past and signs of a change are lacking.

Benzocaine—Market undertones were very steady and prices were apparently firm at well-stabilized position. Demand was steady if also somewhat routine in character and size.

Brucine—The market was lightly stocked with prompt delivery material and signs of a betterment in supplies were neither very prominent nor encouraging. Prices were exceptionally firm on a virtually strong basis of replacement costs.

Butyl Acetate, Alcohol—Synthetic material seemed to be well stabilized and to be moving in quantities that accounted well for the total produced at this time. Normal fermentation materials made in Indiana and Illinois failed to change price on October 1, remain-

For Late Market Developments, See Page 4

ALKALOIDS
GLUCOSIDES—DRUG EXTRACTIVES
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ACONITINE
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ing in the stabilized position prevailing for a considerable period of time.

Caffeine—Prices were advanced early last week, the crystals going to $4.25 per pound in lots of 100 pounds or more; anhydrous, $4.50; citrated, $2.75. Winter requirements for citrated material were under consideration and distributors of this seasonal item indicated a gain in the movement from their present stocks. Demand for alkaloid existed in a degree beyond the ability of all those receiving the request to meet on a reasonably prompt basis. Second hands in some instances were advertising for goods.

Castor Oil—Prices for oil seemed to be steady at the levels recently reached through a readjustment proceeding. Supply and demand were said to differ substantially in that goods were more plentiful than orders.

Arrivals of castor beans last week totaled 77,599 bags, or 11,639,850 pounds, against 22,687 bags, or 3,403,050 pounds arrived during the previous week, and 29,310 bags, or 4,396,500 pounds that reached here during the corresponding week, 1946.

Total arrivals since January 1 this year became 1,155,943 bags, or 173,391,450 pounds, against 1,031,857 bags, or 154,777,550 pounds arrived during the corresponding period, 1946.

Cinchonine—The leading domestic producer has stated that this article, and also Cinchonidine, in the form of alkaloid and the usual salts, will be available shortly after an early date in October.

Cocoa Butter—Actual and potential production of the major producers was still reported well sold ahead toward the end of the year, and their inability to accept new spot business has led to a virtual withdrawal of all quotations.

Codeine—Fall and winter months are periods of increasing consumption, especially of USP phosphate and sulphate. Preparations against the expanded call sure to come at that time are underway in a market of exceptionally well stabilized, yet very firm prices.

Codliver Oil—Importations last week totaled 377 drums from St. Johns, Newfoundland, and 100 drums from Hull, England. Foreign advices stressed the strength behind all prices in foreign part where demand has been exceptionally active and much oil disposed of on a barter or exchange basis rather than by sales involving money. The market here was correspondingly firm to strong.

Corn Syrup—Prices held without further change last week and the future development of the market was uncertain. That future will depend, mainly, on what happens to the price of corn, and there is nothing in the position of that article that suggests a steady extension of the recent moderate reactions downward on the grain exchanges.

Cream of Tartar—The raw material from which tartaric acid is made has advanced in price. Tartaric acid has not been changed but its firmer position is also reflected in that prevailing for all tartrates. Cream was under very steady request last week.

Ephedrine—Inquiries were in volume suggestive of the fall season and the movement is expected to continue in satisfactory volume until the probable needs of the winter months have been covered.

Ethyleneglycol—Antifreeze coverage has accounted for a good movement from producers to distributors in the antifreeze field. The advance in contract prices took place on October 1, as scheduled.

Ethylene Dichloride—Contract prices have been advanced to the basis set up earlier in September when spot quotations were

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raised and the higher contract prices for October 1 were indicated.

Fishliver Oils—Stocks of this item were reported to be moving more steadily and in better volume. Supplies were sufficient to care for all of the currently bettered demand and prices seemed to be on the steady side.

San Francisco, Oct. 2.—Prices remained steady, supplies good. Demand for oil was high. Vitamin A oil prices, including the 1894 conversion factor in all potencies, were as follows:—8,000 to 15,000 unit oil, 14½c. to 15c. per million units; 15,000 to 30,000, 16c.; 30,000 to 60,000, 17c. to 18c.; 60,000 to 100,000, 20c. to 22c.; 100,000 to 150,000, 25c. to 26c.; 150,000 to 200,000, 26c. to 28c.; concentrates, 500,000, 33c. to 34c., and a million units, 58c.

Glycerin—Significant of the strengthening in and rise of the prices for soapmakers raw materials was the fact that prices for soap were advanced by two soapers last week. Announcements made by the two soapmakers were that the rise in its wholesale prices for soap was approximately 10 percent. One of the producers said that raw materials had recently advanced 71 percent in price. The whole development was a reversal of the previous price trend under which successive reductions had been made in prices on soapmakers products.

What this may mean with respect to glycerin prices remains to be developed. The higher prices being obtained for soap could result in some stability coming to the glycerin price schedule. Glycerin being a product recovered in soapmaking, the ability of soapers to get more money for the main product might make it possible for them to hold steady the prices for the byproduct recovered from soapmaking operations. Sales of crude glycerin can reduce the overall cost of soap production.

Other raw materials used in soapmaking have also risen in price, among which have been soda ash, caustic soda, and sodium silicate.

Menthol—The market remained very firm but the recent price advancing was not extended. The prevailing market was well supported by jobbing requests. Also, replacement costs did not weaken during the past week. Seasonal demand incident to the fall and winter months may be expected to improve future movements moderately.

Methylpentanediol—The market was 2c. per pound higher, carlots standing at 18c. per pound; less carlots, 19c.; and tankcars, 16½c.

Milk Powder—Prices were higher. Roller process skimmed milk powder sold at 11¼c. to 12¼c. per pound and the spray process at 12¼c. to 12¾c. Whole milk roller process was 39c. to 39¾c. and the spray process, 38½c. to 43¼c. Reports indicated buying on Belgium and Switzerland accounts, with some activity by Holland being noted. Purchases by the Department of Agriculture totaled 1,608,000 pounds in the latest departmental statement of operations.

Monoethanolamine—As expected, the contract price on this article was advanced October 1 to the levels established on spot business a very short time back.

Morphine—The arrival of fall and the fact that winter can be seen not very far away accounts for the slightly better movement of sulphate to distributors disposed to cover their needs in part at least.

Potassium Acetate—Consumer requirements seem bound to show an increase now that fall is under way and the cold weather months not too far off. A gentle improvement in the general movement of USP goods has been reported of late and it was present last week, too.

Potassium Bromide—Winter requirements should be developing along fairly broad lines in the not far distant future. Consumption of USP material usually rises during the "cold" season. The recently advanced market will prove very steady when demand shall increase.

Potassium Citrate—Demand has improved moderately as wholesalers cover requirements wherewith to meet the usually enlarged need for this material during late fall and throughout the winter months.

Quinine—Things are looking up with respect to the supply of quinine and its salts. The leading American maker has stated that early in October the requirements for alkaloid, bisulphate, dihydrochloride, hydrobromide, phosphate, salicylate and sulphate and also those for quinine and urea hydrochloride will be supplied. Also, somewhat later in October supplies of cinchonine and cinchonidine will become available. Quinidine alkaloid and sulphate are expected to continue in short supply and both remain under allocation. This improvement in stocks, together with the improvement in the supply of imported quinine and its salts will come at the right time; late fall and the winter months usually find the use of quinine rising steadily.

The prices on the alkaloid and salts to be restored to the sales lists were as follows:—Alkaloid, 97½c. per ounce; bisulphate, 73½c.; dihydrochloride, 99½c.; hydrobromide,

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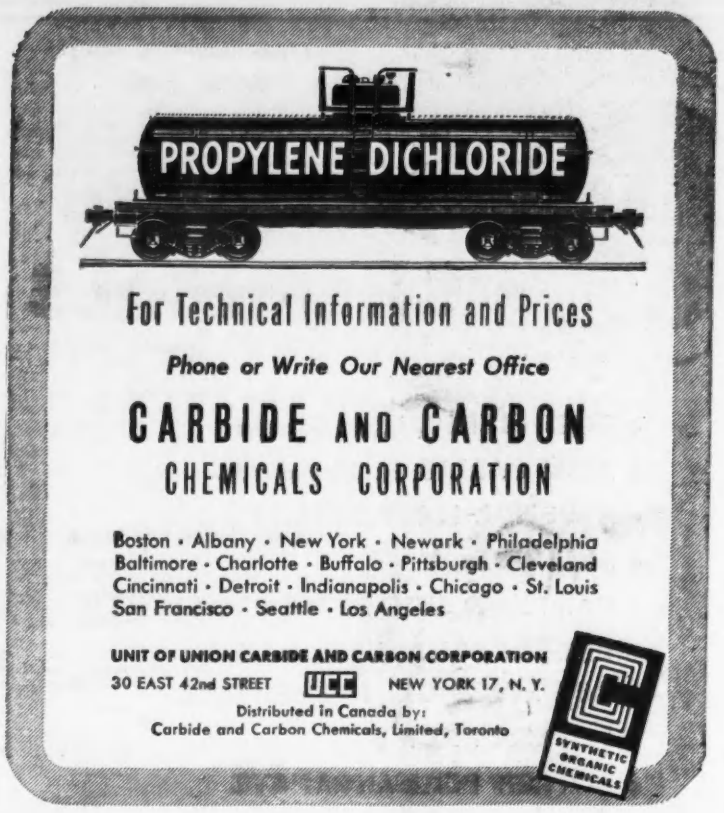
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89½c.; hydrochloride, 89½c.; phosphate, $1.03½; salicylate, 92½c.; and quinine and urea hydrochloride, 94½c.

Salol—Sales should show an improvement now that fall is underway and winter rather too close at hand. The movement has undergone a moderate gain already, according to jobbers.

Merrell Names Van Campen And Kreidler to New Posts

The William S. Merrell Company, pharmaceutical manufacturer, Cincinnati, has named Dr. Marcus G. Van Campen and Dr. Henry Kreidler scientific adviser and executive assistant, respectively, to Dr. Robert S. Shelton, vice-president and scientific director of the company. Dr. Kreider's former post as chief control chemist will be filled by Dr. George Sharp.

Dr. Van Campen, who has been with the company since 1937, will develop, supervise and appraise new research projects being conducted in the company's laboratories and under its fellowships at various universities. Dr. Kreider will help Dr. Shelton direct the administrative and personnel work of the scientific department and will maintain contacts with other departments of the company.

Penick to Be Featured In Saturday Evening Post

The history of S. B. Penick & Co., New York, and a description of its growth to a place of prominence in the American drug industry, will be told in a feature article in the October 11 issue of the "Saturday Evening Post." The article, by J. D. Ratcliff, will be entitled "From Sandalwood to Ant Eggs."

Phila. Drug Exchange Golf Prize to Cleary

W. Cleary, with a low gross score of 78, topped a field of eighty in the golf tournament at the annual outing of the Philadelphia Drug Exchange, held at the Cedarbrook Country Club on October 1. More than 200 members and guests were present at the group's dinner, when principal speakers were J. Vandercliff, of McNeil Laboratories, and Fred J. Anslinger, chief of the Federal Bureau of Narcotics.

Hungary Medicine Output In January-July Reported

Medicine production under state control in Hungary during the first quarter of 1947 included sixty-three kilograms of phenobarbital; eighty-one kilograms of dionin; fourteen kilograms of araphenamine; forty-eight kilograms of codeine hydrochloride, and 7,195 kilograms of castor oil.

ACS Rubber Chemistry Division Elects Chairman

The division of rubber chemistry of the American Chemical Society has elected Harry E. Outcault, assistant sales manager of the zinc oxide department of St. Joseph Lead Company, St. Joseph, Mo., chairman for the year 1948.

Barlow-Maney Names Sellmer Sales Manager

Barlow-Maney Laboratories, Inc., Cedar Rapids, Ia., has appointed Howard H. Sellmer sales manager. Mr. Sellmer is a graduate of the University of Iowa and has spent several years as a special representative for pharmaceutical manufacturers.

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Get Posts at Bruning's N. J. Plant

Dr. A. H. Stuart (left) and Dr. M. S. Larrison have been appointed director of research and superintendent, respectively, of the Charles Bruning Company's chemical plant at West Orange, N. J. Dr. Larrison was formerly with the Barrett Division of Allied Chemical & Dye Corporation, and the Reilly Tar & Chemical Corporation. He will supervise research and manufacturing activities of the fine chemicals used in the manufacture of light-sensitive papers. Dr. Stuart, who was director of research for Schieffelin & Co. for many years, will be in charge of the company's long-range research program.

Whitehall Pharmacal Elects Four New Vice-Presidents

Whitehall Pharmacal Company, New York, has elected four of its personnel to the position of vice-president. The new officers are Richard G. Rettig, vice-president in charge of advertising; E. L. Bernegger, vice-president in charge of retail and wholesale sales; Ira D. Joel, vice-president in charge of chain store sales, and Dr. Robert P. Herwick, vice-president in charge of medical research, control and development.

Baybank to Expand

A three-year expansion program has been planned for Baybank Pharmaceuticals, Inc., the ethical products division of Chesebrough Manufacturing Company. Fred E. Hall, Baybank's vice-president and general manager will direct the expansion program and Olaf Oloffson, formerly with the advertising agency of Noyes & Sproul, Inc., has joined Baybank as sales manager and director of professional service.

Sanitary Supply Ass'n Sets Regional Meetings

The National Sanitary Supply Association has scheduled regional meetings as follows:—Atlanta Biltmore hotel, Atlanta, Ga., October 9 and 10; Hollywood Roosevelt hotel, Los Angeles, November 12 and 13, and Park Central hotel, New York, December 4 and 5.

The association also announces that U. S. Patent No. D-147,599 has been issued to Leo J. Kelly, its executive vice-president. The patent covers the design of the association emblem the use of which is permitted to members in good standing.

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Suggested Uses: Dyestuffs, resins, and pharmaceutical intermediates.

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Phloroglucinol, Tech.

Props: Cream colored crystals. M.P. 212°C. ash: 0.2% maximum. Slightly soluble in water; soluble in alcohol or ether.

Uses: Developer in diazotype process; resin intermediate; coupling component in dyestuff manufacture.

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Methyl Phloroglucinol, Tech.

Props: Cream to light tan crystals; M. R. 210-214°C. Ash: 1.0% maximum; soluble in water, alcohol or ether; insoluble in benzene.

Uses: A very reactive coupling agent; potential dye and plastic intermediate.

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AMINOPYRIN—100 dms, Zeilk Josefovitz, Midland Victory, Antwerp
AMYRIS OIL—3 dms, Norda Essential Oil & Chemical Co, Irish Splice, Port au Prince
1 dm, Dodge & Olcott Co, Irish Splice, Port au Prince
ANISEED—280 bgs, Horseshoe Splice, Vera Cruz
ANNATTO SEED—50 bgs, Bryant & Hefferman, Santa Barbara, Puna
ARECANUTS—80 bgs, Allaire, Woodward & Co, Exminster, Colombo
ARGOLS—574 bgs, American Cream Tartar Co, Exiria, Naples
ARSENIC, WHITE—3,273 bbls, Amtorg Trading Corp, S Kirov, Leningrad
ASBESTOS—12,496 bgs, Amtorg Trading Corp, S Kirov, Leningrad
6 bgs, Philipp Bros, Rattler, Fremantle
ASPHALT, MINERAL—240 bgs, Allied Asphalt & Mineral Corp, Horseshoe Splice, Havana
BEEF LIVER, CONCENTRATED—100 cs, Wilson & Co, Mormacisle, Buenos Aires
BEES WAX—142 blocks, Brown & Sites Co, Exminster, Djibouti
78 blocks, Guaranty Trust Co, Exminster, Djibouti
88 blocks, Manufacturers Trust Co, Exminster, Djibouti
BONES—1,449 bgs, American Agricultural & Chemical Co, Marquette Victory, Bangkok
BUTTONLAC—2 cs, Mac Lac Co, Marquette Victory, Kohsichang
4 cs, J Berlage & Co, Marquette Victory, Kohsichang
100 cs, Wah Chang Trading Corp, Marquette Victory, Kohsichang
20 cs, Otto Gerdau Co, Marquette Victory, Kohsichang
120 bgs, Exminster, Calcutta
CANARY SEED—558 bgs, F H Von Damm, Estrella, Tanger
215 bgs, Hinton & Co, Estrella, Tanger
291 bgs, A G Dunn, Estrella, Tanger
726 bgs, Warner Bros Feed Corp, Estrella, Tanger
292 bgs, Levy & Levis Co, Estrella, Tanger
CARAWAY SEED—100 bgs, Louis Furth, Inc, Midland Victory, Rotterdam
50 bgs, Knickerbocker Mills Co, Midland Victory, Rotterdam
150 bgs, C M Van Sillevoldt, Midland Victory, Rotterdam
100 bgs, A G Dunn, Midland Victory, Rotterdam
100 bgs, Louis Furth, Inc, Norwalk Victory, Rotterdam
CARNAUBA WAX—33 bgs, Strahl & Pitsch, Gdynia, Bahia
53 bgs, Strahl & Pitsch, Mormacwren, Bahia
110 bgs, Innis, Speiden & Co, Minasloide, Fortaleza
44 bgs, Mutual Products Corp, Minasloide, Fortaleza
55 bgs, J Henry Schroeder Banking Corp, Minasloide, Fortaleza
55 bgs, W R Grace & Co, Minasloide, Fortaleza
56 bgs, Chase National Bank, Minasloide, Fortaleza
189 bgs, Wessel, Duval & Co, Minasloide, Fortaleza
CASEIN—833 bgs, Paul A Dunkel & Co, Mormacwren, Santos
CASHEW SHELL OIL—25 dms, Brazil Oiticica, Inc, Minasloide, Fortaleza
CASTOR BEANS—8,467 bgs, Spencer Kellogg & Sons, Montevideo, Recife
3,307 bgs, Baker Castor Oil Co, Montevideo, Recife
8,500 bgs, Baker Castor Oil Co, Loide America, Santos
999 bgs, Spencer Kellogg & Sons, Irish Splice, Port au Prince
8,500 bgs, Baker Castor Oil Co, Mormacsun, Santos
880 bgs, Spencer Kellogg & Sons, Olympic Pioneer, Port au Prince
8,400 bgs, Sherwin Williams & Co, Mormacwren, Bahia
6,324 bgs, Spencer Kellogg & Sons, Mormacwren, Bahia
16,123 bgs, Baker Castor Oil Co, Mormacwren, Bahia
8,700 bgs, Baker Castor Oil Co, Mormacmoon, Santos
8,500 bgs, Baker Castor Oil Co, Minasloide, Santos
3,400 bgs, Baker Castor Oil Co, Minasloide, Pernambuco
798 bgs, Spencer Kellogg & Sons, Minasloide, Fortaleza
CHALK—7 bgs, R T French Co, Sacramento, Hull
CHILLIES—20 bgs, Otto Gerdau Co, Irish Splice, Port au Prince
CHINA CLAY—20 bgs, R T French Co, Sacramento, Hull
CHROME ORE—3,085 tons, Amtorg Trading Corp, S Kirov, Leningrad
CINNAMON—30 bls, Karr, Ellis & Co, Exminster, Colombo
77 bls, C T Wilson & Co, Rondo, Colombo
280 bls, Carr Bros, Rondo, Colombo
80 bls, Fritzsche Bros, Rondo, Colombo
95 bls, Holland Colombo Trading Society, Rondo, Colombo
25 bls, Volkart Bros, Rondo, Colombo
53 bls, Rondo, Colombo
CITRIODORA OIL—3 cs, W J Bush & Co, Minasloide, Santos
CITRONELLA OIL—11 dms, Volkart Bros, Rondo, Colombo
CLAY—3 dms, F L Kraemer & Co, Bienville, Rotterdam
CLOVE OIL—91 cks, Givaudan-Delawanna, J P Mitchell, Tamatave
2 cks, Polaks Frutal Works, J P Mitchell, Tamatave
42 cks, Lo Curto & Funk, J P Mitchell, Tamatave
CLOVES—350 bgs, L & R Millen, J P Mitchell, Tamatave
200 bgs, Dodge & Olcott Co, J P Mitchell, Tamatave
200 bgs, Mincing Trading Co, J P Mitchell, Tamatave
530 bgs, Louis Furth, Inc, J P Mitchell, Tamatave
210 bgs, Ungerer & Co, J P Mitchell, Tamatave
317 bgs, Lo Curto & Funk, J P Mitchell, Tamatave
COALTAR ACID—68 dms, Merck & Co, Sacramento, Hull
DISTILLATE—30 dms, Merck & Co, Sacramento, Hull
COD OIL—200 cks, Atlas Refinery, Inc, Fort Townsend, St Johns
150 dms, Scandinavian Oil Co, Fort Townsend, St Johns
CODLIVER OIL—300 dms, Whitmoyer Laboratories, Inc, Fort Townsend, St Johns
100 dms, McKesson & Robbins, Sacramento, Hull
COLUMBITE ORE—4,480 bgs, Union Carbide & Carbon Co, Hopeville, Lagos
COLORS, EARTH—16 bbls, J Lee Smith & Co, Norwalk Victory, Rotterdam
129 bgs, J Lee Smith & Co, Norwalk Victory, Rotterdam
COPAL GUM—70 bgs, O G Innes Corp, Steel Fabricator, Singapore
CORIANDER SEED—375 bgs, M J Golombeck, Mormacisle, Buenos Aires
100 bgs, North American Continental Co, Exiria, Casablanca
250 bgs, H S Cramer & Co, Estrella, Tanger
375 bgs, Estrella, Tanger
COTTON LINTERS—830 bls, Kauders, Steuber & Co, S Kirov, Leningrad
23 bls, First National Bank, Chicago, S Kirov, Leningrad
CREOSOTE OIL—225 dms, Rattler, Sydney
6 dms, Bernuth, Lemboke Co, Elysia, Glasgow
CRESYLIC ACID—10 dms, American British Chemical Supplies, Inc, Rattler, Sydney
CUBE ROOT—66 bls, Morris Hess & Co, Santa Barbara, Callao
CUMIN SEED—100 bgs, Horseshoe Splice, Vera Cruz
DAMMAR GUM—350 bgs, O G Innes Corp, Rondo, Singapore
DINITRO ORTHOCRESOL—52 kgs, Bank of New South Wales, Rattler, Sydney
DIVI-DIVI—4,068 bgs, M E Schoen Corp, Cape Avinof, Santa Marta
600 bgs, Royal Bank of Canada, Cape Avinof, Santa Marta
DYES, ANILIN—58 dms, Geigy Co, Robert Maersk, Antwerp
72 dms, Geigy Co, Bienville, Rotterdam
ERYTHRINA SEED—39 bgs, Merck & Co, Cape Avinof, Barranquilla
ESSENTIAL OIL—2 dms, Monte Iciar, Barcelona
EUCALYPTUS GUM—5 cs, S B Penick & Co, Rattler, Sydney
EUCALYPTUS OIL—10 dms, Dodge & Olcott Co, Ashburton, Sydney
3 dms, W J Bush & Co, Buenos Aires, Santos
29 dms, Orbis Product Corp, Rattler, Sydney
11 dms, Chemical Bank & Trust Co, Rattler, Sydney
1 dm, W J Bush & Co, Minasloide, Santos
EUCALYPTUS WOOD EXTRACT—1,889 bgs, Judson Sheldon Corp, Rattler, Fremantle
FERTILIZER—576 bgs, Wessel, Duval & Co, Pygmalion, Cumana
FUEL OIL—10,000 bbls, Asiatic Petroleum Corp, Santa Rosa, Curacao
92,000 bbls, Standard Oil Co, N J, Esso Aruba, Aruba
40,000 bbls, Texas Co, New Jersey, Curacao
60,000 bbls, Narraganset Electric Co, New Jersey, Curacao
59,724 bbls, Southeastern Oil Co, Richard J Cleveland, Tampico
GALL—1 dm, Bank New South Wales, Ashburton, Adelaide
1 dm, Public National Bank, Ashburton, Adelaide
1 ck, Ashburton, Sydney
1 dm, Rattler, Sydney
GLANDS—12 bbls, Wilson & Co, Mormacisle, Buenos Aires
1 tc, G D Searle & Co, Mormacisle, Buenos Aires
2 bbls, G D Searle & Co, Mormacisle, Buenos Aires
GLUE, HIDE—200 cs, Biddle, Sawyer & Co, Marquette Victory, Bangkok
GLUESTOCK—92 bls, National City Bank, Montevideo, Recife
GLYCERIN—88 dms, J J Ryan & Son, Inc, Montevideo, Buenos Aires
6 dms, Commercial Bank of Australia, Rattler, Sydney
GRAPHITE—1,455 bgs, Joseph Dixon Crucible Co, J P Mitchell, Tamatave
1,000 bgs, Charles Pettinos, J P Mitchell, Tamatave
GYPSUM—10,442 tons, United States Gypsum Co, Gypsum Queen, Hantsport
506 bgs, L A Salomon & Bros, Sacramento, Hull
HERBS—5 bls, E Meer & Co, Bloomersdyk, Rotterdam
IPECAC ROOT—9 bgs, C E Griffin & Co, Cape Avinof, Barranquilla
IRON OXIDE—3,261 bgs, C K Williams & Co, Exiria, Malaga
1,471 bgs, C B Chrystal & Co, Exiria, Malaga
87 bbls, Reichard-Coulston, Inc, Exiria, Malaga
JUNIPER TAR—10 dms, Geo Uhe Co, Exiria, Malaga
KOLA NUTS—312 bgs, D Steengrafe & Co, Irish Splice, Kingston
KYANITE—50 tons, East Asiatic Co, Exminster, Calcutta
3 bgs, Philipp Bros, Rattler, Fremantle
LAUREL LEAVES—89 bls, National City Bank, Fernmore, Izmir
LEMONGRASS OIL—6 dms, Volkart Bros, Exminster, Cochin
1 dm, Lo Curto & Funk, Irish Splice, Port au Prince
LEMON PEEL—40 bls, Karl H Landers, Inc, Exiria, Leghorn
LIVERMEAL—450 bgs, Wilbur Ellis & Co, Mormacisle, Buenos Aires
MACE—40 cs, A G Dunn, Scottish Prince, Singapore
34 bgs, Marquette Victory, Kobsichang
MANGANESE ORE—80 bgs, Bowring & Co, Exiria, Casablanca
2,500 tons, Carnegie-Illinois Steel Corp, Robin Tuxford, Durban
MANGROVE BARK—2,791 bgs, Manufacturers Trust Co, Robin Tuxford, Zanzibar
METHENOL — 700 dms, American Cyanamid & Chemical Corp, Cape Alava, Hull
MICA—221 cs, Irving Trust Co, J P Mitchell, Fort Dauphin
209 cs, J P Mitchell, Fort Dauphin
100 cs, Hal Dalphin & Co, Exminster, Madras
36 cs, Whittaker, Clark & Daniels, Exminster, Calcutta
72 cs, Cornelis & Suhr, Exminster, Calcutta
559 cs, A O Schoonmaker Insulation Co, Exminster, Calcutta
564 cs, Gillespie-Rogers-Pyatt Co, Exminster, Calcutta
3 cs, Otto Gerdau Co, Exminster, Calcutta
MOLASSES—457 tons, W R Grace & Co, Santa Barbara, Salaverry
MUCUGE GUM—332 bgs, L A Dreyfus & Co, Mormacwren, Bahia
NAPHTHALENE—3 dms, Sobel Bros, Fordham Victory, London
234 dms, Irving Trust Co, Rattler, Sydney
NUTMEGS—70 bgs, Scottish Prince, Singapore
OITICICA OIL—900 dms, Brazil Oiticica, Inc, Minasloide, Fortaleza
OLIVE OIL—25 dms, Pan American Trust Co, Exiria, Seville
125 dms, Leghorn Trading Co, Exiria, Casablanca
50 dms, Schroeder Bros, Exiria, Casablanca
200 dms, Strohmeyer & Arpe Co, Exiria, Casablanca
50 dms, Scarmelli & Co, Exiria, Casablanca
161 dms, J Ossola, Exiria, Casablanca
99 dms, Albert N Cory, Inc, Exiria, Casablanca
53 dms, Gus Sclafani, Exiria, Casablanca
81 dms, Philipponne & Co, Exiria, Casablanca
53 dms, Uddo & Taormina Co, Exiria, Casablanca
240 dms, Samuel A Stone, Exiria, Casablanca
175 dms, Exiria, Casablanca
ORANGE PEEL—150 bgs, S B Penick & Co, Olympic Pioneer, Cape Haitien
537 bgs, Bridgett & Co, Olympic Pioneer, Cape Haitien
OURICURY WAX—63 bgs, Innis, Speiden & Co, Mormacwren, Bahia
112 bgs, Wm M Allison & Co, Mormacwren, Bahia
125 bgs, Cornelius Product Co, Mormacwren, Bahia
171 bgs, W R Grace & Co, Mormacwren, Bahia
44 bgs, Paul & Stein Bros, Mormacwren, Bahia
406 bgs, Wessel, Duval & Co, Mormacwren, Bahia
PALM OIL—1,008 tons, Balfour, Guthrie & Co, Hopeville, Matadi
PAPAIN—20 cs, S B Penick & Co, Rondo, Colombo
PAPRIKA—50 bgs, Norwalk Mills, Estrella, Tanger
PEPPER, BLACK—224 bgs, Mincing Trading Co, Bloomersdyk, Rotterdam
100 bgs, Horseshoe Splice, Tampico
PETITGRAIN OIL—2 dms, Mormacisle, Buenos Aires
PETROLEUM, CRUDE — 123,672 bbls, Secony Vacuum Oil Co, Satucket, Puerto La Cruz
107,602 bbls, Standard Oil Co, N J, Pocket Canyon, Cartagena
PHTHALIC ANHYDRIDE—330 dms, English Scottish & Australia Bank, Rattler, Sydney
PIMENTO—400 bgs, Otto Gerdau Co, Irish Splice, Kingston
POPPYSEED—100 bgs, Louis Furth, Inc, Saginaw Victory, Rotterdam
200 bgs, Louis Furth, Inc, Gdynia, Buenos Aires
300 bgs, C M Van Sillevoldt, Midland Victory, Rotterdam
100 bgs, Louis Furth, Inc, Norwalk Victory, Rotterdam
100 bgs, J H Forbes Co, Bloomersdyk, Rotterdam
250 bgs, Biddle Purchasing Co, Bloomersdyk, Rotterdam
50 bgs, Archibald & Kendall, Bloomersdyk, Rotterdam
POTASH CHLORATE—300 dms, Charles Hardy, Inc, Midland Victory, Antwerp
PYRETHRUM FLOWERS—500 bls, Westinghouse Electric International Co, Robin Turford, Dar Es Salaam
PYRIDINE—24 dms, American British Chemical Supplies, Inc, Rattler, Sydney
QUEBRACHO EXTRACT—1,021 bgs, International Products Corp, Montevideo, Buenos Aires
510 bgs, Vermilye Corp, Sacramento, Hull
38,360 bgs, River Plate Import & Export Corp, Mormacisle, Buenos Aires
RUTILE SAND—5,094 bgs, Bank New South Wales, Rattler, Sydney
1,908 bgs, Rattler, Sydney
SAGE LEAVES—465 bgs, Superintendence Co, Inc, Fernmore, Beyrouth
SANTALUM—4 dms, Cox, Aspden & Fletcher, Rattler, Fremantle
SEEDLAC—200 bgs, The Mantrose Corp, Exminster, Calcutta
SESAME SEED—1,189 bgs, Louis Furth, Inc, Cape Avinof, Barranquilla
SHELLAC—420 cs, Wah Chang Trading Corp, Marquette Victory, Kohsichang
1,200 cs, J H Schroeder Banking Corp, Marquette Victory, Kohsichang
500 cs, M Rothschild, Marquette Victory, Kohsichang
20 cs, Otto Gerdau Co, Marquette Victory, Kohsichang
10 cs, Mac Lac Co, Marquette Victory, Kohsichang
34 cs, Marquette Victory, Kohsichang
SOAP BARK—3 bls, R J Prentiss & Co, Ashburton, Melbourne
SQUILLS—1,307 bgs, Bowen Bros, Geo Uhler, Algiers
STICKLAC—170 bgs, Marquette Victory, Kohsichang
STORAX GUM—25 cs, National City Bank, Fernmore, Izmir
TANKAGE, LIVER & GLANDULAR—1,162 bgs, International Commercial Co, Gdynia, Buenos Aires
TAPIOCA FLOUR—460 bgs, Geismar & Co, Buenos Aires, Santos
3,030 bgs, Stein, Hall & Co, Mormacsun, Santos
56 bgs, Marquette Victory, Kohsichang
THALLIUM SULPHATE—1 cs, Fairmount Chemical Co, Inc, Fordham Victory, London
VALONIA—300 bgs, Irving Trust Co, Fernmore, Izmir
VANILLA BEANS—22 cs, F Huber & Co, J P Mitchell, Tamatave
210 cs, Thurston & Braidich, J P Mitchell, Tamatave
203 cs, Norda Essential Oil & Chemical Co, J P Mitchell, Tamatave
25 cs, Hunziker, Inc, J P Mitchell, Tamatave
1 cs, Lucien F Poirier & Co, J P Mitchell, Tamatave
VARNISH—2 dms, Meadows, Wye & Co, Rattler, Sydney
WHITING—1,200 bgs, Taintor Trading Co, Sacramento, Hull
900 bgs, Nicholas H Weitzner, Bienville, Rotterdam
WITHERITE—100 tons, E I Du Pont de Nemours & Co, Sacramento, Newcastle on Tyne
WOOL GREASE—30 bgs, Robinson, Wagner & Co, Sacramento, Hull
YACCA GUM—157 bgs, Commercial Bank of Australia, Ashburton, Adelaide
YLANG YLANG OIL—2 cks, Norda Essential Oil & Chemical Co, J P Mitchell, Tamatave
1 ck, Givaudan-Delawanna, J P Mitchell, Tamatave
ZIRCON SAND—3,689 bgs, Brown Bros-Harriman Co, Rattler, Sydney
6,368 bgs, Bank New South Wales, Rattler, Sydney

Baltimore

BONES—2,450 bgs, Bank of New York, Montevideo, Buenos Aires
CARAWAY SEED—300 bgs, W G Scarlett & Co, Midland Victory, Rotterdam
CASEIN—2,000 bgs, American Cyanamid & Chemical Corp, Mormacwren, Buenos Aires
OLIVE OIL—104 dms, Commercial Bank & Trust Co, Exiria, Seville
PEPPER, BLACK—480 bgs, Otto Gerdau Co, Exminster, Cochin
POPPYSEED—300 bgs, W G Scarlett & Co, Midland Victory, Rotterdam
300 bgs, W G Scarlett & Co, Bloomersdyk, Rotterdam
QUEBRACHO EXTRACT—7,138 bgs, Vermilye Corp, Montevideo, Buenos Aires

Boston

COD OIL—52 cks, F W Damon, Fort Townsend, St Johns
8 dms, F W Damon, Fort Townsend, St Johns
EUCALYPTUS OIL—50 dms, First National Bank, Rattler, Sydney
MICA—226 cs, First National Bank, J P Mitchell, Fort Dauphin
44 cs, First National Bank, Minasloide, Rio de Janeiro

Norfolk

COCOA RESIDUE—6,400 bgs, Monsanto Chemical Co, Cape Alava, Hull
QUEBRACHO EXTRACT—12,014 bgs, River Plate Import & Export Corp, Scottish Prince, Buenos Aires
200 bgs, Vermilye Corp, Cape Alava, Hull

Philadelphia

CODLIVER OIL—77 dms, Myerston Trust Co, Fort Townsend, St Johns
GLYCERIN—89 dms, Reichhold Chemical, Inc, Montevideo, Buenos Aires
IRON ORE—3,500 tons, E J Lavino & Co, Alawai, Masinloc
POPPYSEED—100 bgs, C M Van Sillevoldt, Saginaw Victory, Rotterdam
VANILLA BEANS—40 cs, M Cortizas & Co, J P Mitchell, Tamatave
19 cs, Zink & Triest, J P Mitchell, Tamatave
240 cs, Camax Co, J P Mitchell, Tamatave
59 cs, M Cortizas & Co, Horseshoe Splice, Vera Cruz

Industrial Research Inst. Discusses Lab Relations

Several round-table discussions on the subject of developing helpful relations within the research laboratory, between the research worker and management, and between the industrial research laboratory and management, featured the fall meeting of the Industrial Research Institute held recently in Niagara Falls, Ontario, Canada.

Guest speakers from Great Britain and Canada included E. K. Rideal, director of the Royal Institution, London, who discussed the structure of British research, and R. R. McLaughlin, head of the department of chemical engineering at the University of Toronto, who outlined the relationship of industrial, government and university research in Canada and expressed his views as to the effect of these on the long term development of science.

Speakers from the United States were H. N. Stephens, research director for the Minnesota Mining & Manufacturing Company, St. Paul, who spoke on the basic problems of research direction, with emphasis on maintaining morale in an organization; A. S. Davis, jr., attorney for the Research Corporation, New York, who discussed patent policies for industrial research and how such policies should be set up and administered, and J. M. McIlvain, director of the administrative division of the research and development department of Atlantic Refining Company, Philadelphia, who spoke on budgeting for research and development.

Alcohol and Yeast Yield From Sulfite Liquor Told

OPD Washington Bureau

Additional data on the production of alcohol and yeast from waste sulfite liquor by the Zellstoffabric Waldhof Company in Germany is described in a report now on sale by the Office of Technical Services of the Department of Commerce. The report was prepared by Dr. C. Greaves of the Forest Products Laboratory, Ottawa, Canada, for the British Intelligence objectives subcommittee.

The technical processes for making both alcohol and yeast are described in considerable detail in the report (PB-53936; "Production of alcohol and yeast from waste sulfite liquor"; photostat. $1; microfilm, $1; twelve pages), which also includes a flow diagram of the alcohol process and a cross section diagram of the yeast tanks.

Another report (PB-34807; "Waldhof process for production of food yeast"; (six pages, mimeographed 25 cents) on the Waldhof yeast process was previously released by OTS. Prepared by J. M. Holderby, who investigated the process in Germany under OTS sponsorship, the report describes the process as "perhaps the most outstanding development in the field of yeast production."

Orders for reports should be addressed to the Office of Technical Services, Department of Commerce, Washington 25, D. C., and should be accompanied by check or money order, payable to the Treasurer of the United States.

Before the war the German company attained a monthly production of 300 metric tons of ground wood pulp, 4,800 tons of sulfite pulp, and 1,600 tons of wrapping paper, the report states. When spruce was used as the raw material, the waste sulfite liquor was processed into alcohol, and when beech was used, into yeast. The yeast yield by the Waldhof method was 130 kilograms per ton. With two yeast tanks the company's plant at Kostheim produced six to seven tons of yeast a day.

Alcohol production amounted to fifty liters more or less per ton of pulp, depending on the quality of the pulp produced and the composition of the cooking acid. The alcohol produced contained 94 to 94.8 percent ethyl alcohol, 1 percent methyl alcohol, 0.1 to 0.01 percent acetaldehyde, and water. It was not fit for human consumption but was concentrated to 100 percent alcohol for use as an additive to automobile fuel.

Trade Briefs

Drugs, chemicals, dyes and colors exported from the United Kingdom during July amounted to £7,170,454 in value, compared with £5,581,832 exported during June.

Meat protein, serums and various gland extracts will be manufactured in a new factory to be started in the near future in Clonwell, County Tipperary, Eire.

Penicillin plant of the Societe Francaise de Glycerine is expected to begin production shortly. No details or estimated production are available at present.

Chemical dye production equipment will be shipped to Czechoslovakia from Germany as a part of the equipment of twenty-six factories in Germany to be allocated by the Inter-Allied Reparations Commission in Brussels.

Packaging Institute to Meet In New York Nov. 18-19

The Packaging Institute will hold its annual meeting at the Commodore hotel, New York, on November 18-19. Program committee chairman W. O. Brewer, Calco Chemical Company, has announced that sessions will be devoted to new products and methods and packaging opportunities abroad, as well as the customary seminars on packaging in particular industries and general sessions.

The first day of the meeting will be taken up with a general meeting and discussion, reports of the president and committee chairmen, and nominations for new board members. In the morning of the second day, seminars of the brewing and distilling industries and the foods, confectionary and tobacco industries.

In the afternoon of the final day, the consolidated drugs, cosmetics, soaps and chemicals seminar will be held under the leadership of R. H. Rhodhamel, Eli Lilly & Co. Featured speakers on this program will be Kenneth R. Marvin, Eastman Kodak Company, and Arthur D. Herrick.

Brazilian Chemical Imports In Jan.-Mar. Reported

Imports into Brazil during the period January 1 to March 31, 1947, included the following chemicals, according to the licensing division of the Federal Foreign Trade Council: industrial caustic soda, 2,657,028 kilos; domestic caustic soda, 116,023 kilos; soda ash, 2,035,180 kilos; tars, 1,025,192 kilos, and Chilean nitrates, 707,669 kilos.

Medical Research Awards Of U.S. Totaled $10,214,174

OPD Washington Bureau

Public Health Service awards for basic medical research have totalled $10,214,174 during the past twenty months, according to a report made public today by Oscar R. Ewing, Federal Security Administrator. Six hundred twenty-nine scientists in 193 institutions shared in these grants, as listed in the report to the Administrator by Doctor C. J. Van Slyke, chief of the division of research grants and fellowships of the National Institute of Health, Public Health Service, Federal Security Agency.

Launched in late 1945, this Federal program is planned and directed by 250 of the nation's top civilian scientists for the purpose of producing the research which they consider most essential to the improvement of the nation's health. The awards reported today were made between January 1, 1946, and September 15, 1947. They support research projects in ninety-seven universities and colleges and in thirty-four hospitals and clinics. An additional sixty-two research grants were made to foundations, sanatoriums, health departments and individuals.

Norwich Pharmacal Workers Gets Packaging Training

Packaging department personnel of the Norwich Pharmacal Company, Norwich, N. Y., were recently given a special course in labeling operations as part of a program of training designed to keep them abreast of packaging operations in the pharmaceutical field.

Prepared by National Adhesives, New York, the course included labeling methods, package selection, label specifications, grain determination, humidifying stiff labels, the nature of glues and their storage and handling, and the regulation and care of labeling machines.

Trade Briefs

Pharmaceutical industry in Berlin, Germany, now has 250 firms, employing 3,500 workers. In addition, 350 cosmetics houses in that city employ 2,300 persons.

Ballo Instrument Company is now producing a complete line of chemical engraved thermometers for general laboratory use.

Medicinal and chemical laboratory established in Venezuela during the second quarter of 1947 brings to twenty-six the total of such establishments known to be operating in that country.

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Celanese Names Three New Sales Representatives

Celanese Chemical Corporation, New York, has named C. Harry Snell sales representative for the West coast, Thomas J. O'Dwyer for the Midwest area, and John Stevens for New England. All three men have been transferred from the company's "Chemcel" plant, near Bishop, Texas.

Mr. Stevens, who will have temporary headquarters in New York, was formerly with the sales department of the Calco chemical division, American Cyanamid Company. Mr. Snell, who has had sales experience with Bristol Laboratories before joining Celanese, will make his headquarters at Los Angeles, and Mr. O'Dwyer will work out of Detroit.

U.K. Gelatin Imports Up

Gelatin, glue and size for industrial purposes imported into the United Kingdom during the first half of 1947 were more than seven times greater in value and quantity than in the corresponding period in 1946. Value totals were £288,230 in the first half of 1947, compared with £38,100 in the first half of 1946.

Surplus Materials

—Continued from page 4

in demilitarization are estimated: green, 715 lbs.; red, 93,500 lbs.; violet, 155,000 lbs.; yellow, 6,500 lbs.; particulars from OC-Chemical Corps, New York 3, CSS-JM-48-5, November 3.

Ethyl acetate, 13 390-lb. drums, $31.20 per drum, Tulsa, Okla. (GP), TU-LR-SA-NO-73-363, October 30.

Ethyl lactate, 95 425-lb. drums, $93.50 per drum, Tulsa, Okla. (GP) TU-LR-SA-NO-73-363, October 30.

Hydrated lime, 61,360 lbs., $368.16 for the lot, Little Rock, Ark. (GP), TU-LR-SA-NO-73-363, October 30.

Lubricating oil, 672 gallons, $168 for the lot, and 95 54-gallon drums, $13.75 per drum, San Antonio, Texas (GP), TU-LR-SA-NO-73-363, October 30.

Methyl cellosolve, 207 430-lb. drums, $30.10 per drum, Tulsa, Okla. (GP), TU-LR-SA-NO-73-363, October 30.

Petrolatum, 16,962 lbs., $0.02 per pound, San Antonio, Texas (GP), TU-LR-SA-NO-73-363, October 30.

Silica gel, 13,196 lbs., $0.08 per pound, New Orleans (GP), TU-LR-SA-NO-73-363, October 30.

Operating equipment and supplies currently offered by WAA in fixed-price and open-bid sales include the following:—

Degreasing equipment, 9 sets, various types, Philadelphia, PHL-65-393, October 14.

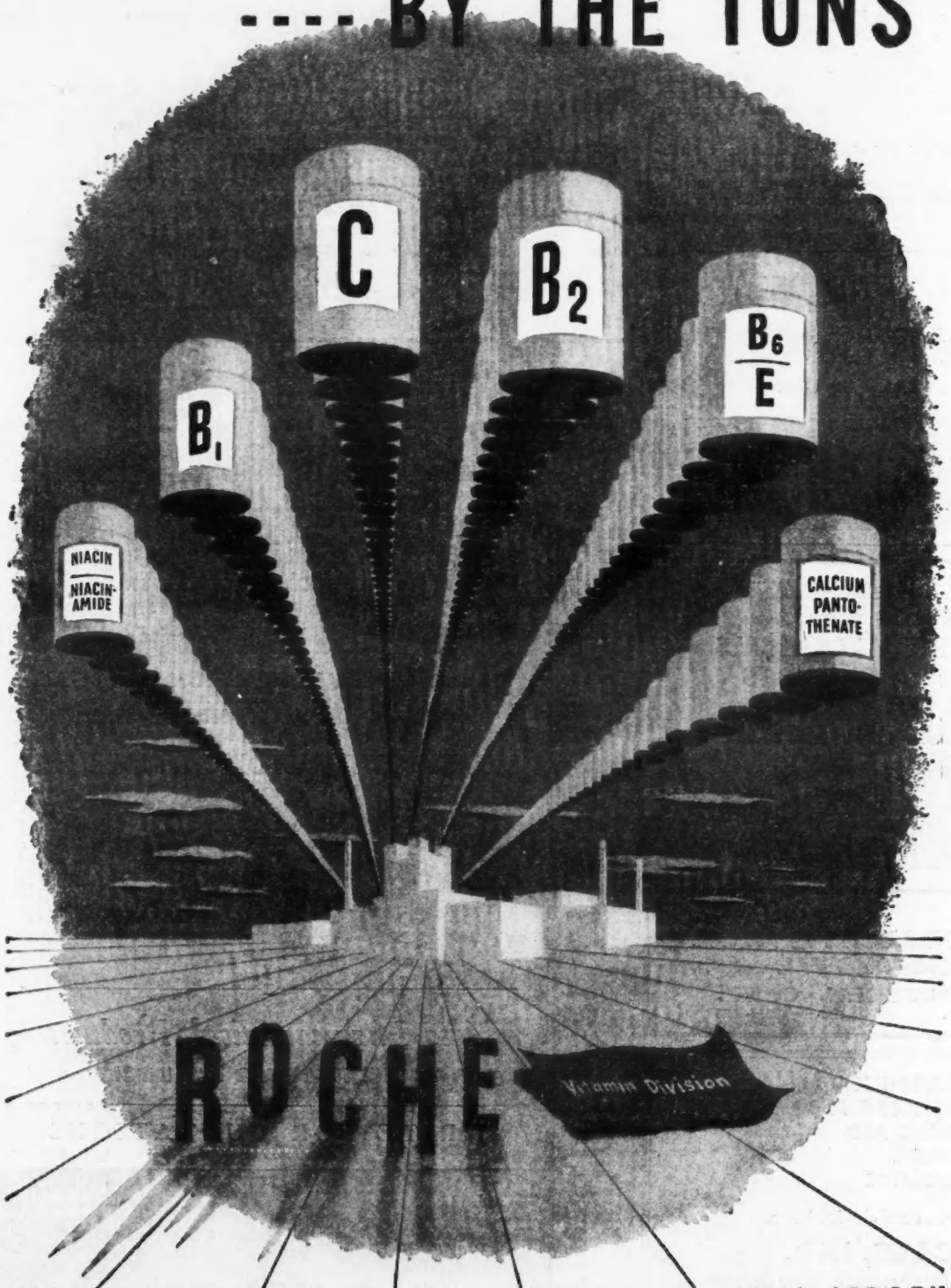
Hoists, 52, various types, Philadelphia, PHL-65-393, October 14.

Scales, 9 sets, various types, Philadelphia, PHL-65-393, October 14.

Trucks, various, 183, Philadelphia, PHL-65-393, October 14.

SUPERIOR QUALITY VITAMINS

---- BY THE TONS



HOFFMANN-LA ROCHE, INC., NUTLEY 10, NEW JERSEY

Synthetic Organics Output

—Continued from page 7

4 percent last year, against those of 1945, and sales value registering a 9.1 percent drop last year.

A summary of United States production of and sales of intermediates and finished products in 1946, as compared with similar data for 1945, follows:—

Synthetic organic chemicals	1946	1945
Production, grand total	14,353,461,000	14,705,038,000
Sales, grand total	9,526,735,000	9,390,165,000
Sales value, grand total	$1,905,568,000	$1,853,371,000
Organic chemicals, cyclic		
Production, total	5,150,602,000	5,022,914,000
Sales, total	4,686,433,000	3,736,295,000
Sales value, total	$1,054,505,000	$917,470,000
(A) Intermediates		
Production	2,547,485,000	2,326,921,000
Sales	1,417,509,000	1,256,625,000
Sales value	$159,870,000	$145,042,000
(B) Finished products		
Production, total	2,603,117,000	2,695,993,000
Sales, total	2,678,924,000	2,479,744,000
Sales value, total	$894,635,000	$774,428,000
(1) Dyes		
Production, total	186,307,000	145,213,000
Sales, total	184,855,000	138,248,000
Sales value, total	$120,284,000	$103,489,000
(2) Lakes and toners		
Production	32,316,000	23,177,000
Sales	30,622,000	21,756,000
Sales value	$26,464,000	$17,310,000
(3) Medicinals		
Production	36,099,000	39,107,000
Sales	35,356,000	35,306,000
Sales value	$201,077,000	$143,218,000
(4) Flavor and perfume materials		
Production	10,981,000	12,719,000
Sales	10,102,000	11,625,000
Sales value	$15,736,000	$14,784,000
(5) Plastic materials		
Production	548,915,000	443,403,000
Sales	498,687,000	385,144,000
Sales value	$127,200,000	$96,327,000
(6) Rubber-processing chemicals		
Production	80,129,000	80,080,000
Sales	72,900,000	69,485,000
Sales value	$29,604,000	$28,768,000
(7) Elastomers (synthetic rubbers)		
Production	1,379,411,000	1,626,032,000
Sales	1,548,275,000	1,500,087,000
Sales value	$288,473,000	$278,577,000
(8) Plasticizers		
Production	83,839,000	138,702,000
Sales	78,507,000	121,035,000
Sales value	$21,176,000	$23,843,000
(9) Surface-active agents		
Production	94,953,000	76,754,000
Sales	80,942,000	63,889,000
Sales value	$14,930,000	$14,158,000
(10) Miscellaneous		
Production	150,167,000	146,773,000
Sales	138,588,000	133,781,000
Sales value	$49,596,000	$50,954,000
Organic chemicals, acyclic (intermediates and finished products)		
Production, total	9,202,859,000	9,682,124,000
Sales, total	5,430,302,000	5,653,794,000
Sales value, total	$851,063,000	$935,901,000
(1) Medicinals		
Production	4,607,000	4,978,000
Sales	5,016,000	4,719,000
Sales value	17,022,000	17,754,000
(2) Flavor and perfume materials		
Production	6,042,000	5,398,000
Sales	5,891,000	5,056,000
Sales value	$7,023,000	5,422,000
(3) Plastic materials		
Production	445,362,000	404,614,000
Sales	435,524,000	377,239,000
Sales value	$207,905,000	$172,722,000
(4) Rubber processing chemicals		
Production	15,433,000	20,932,000
Sales	14,485,000	21,755,000
Sales value	$10,801,000	$15,242,000
(5) Elastomers (synthetic rubbers)		
Production	328,373,000	284,034,000
Sales	334,818,000	284,039,000
Sales value	$83,481,000	$81,402,000
(6) Plasticizers		
Production	30,757,000	31,523,000
Sales	23,003,000	17,917,000
Sales value	$8,170,000	$7,042,000
(7) Surface active agents		
Production	144,244,000	107,688,000
Sales	131,031,000	93,659,000
Sales value	$42,087,000	$26,441,000
(8) Miscellaneous		
Production	8,288,041,000	8,822,926,000
Sales	4,480,534,000	4,849,349,000
Sales value	$474,484,000	$508,856,000

Obituaries

James E. Auten

James E. Auten, former president of the Barber Asphalt Company, Barber, N. J., died October 1 in Bridgeport hospital, Bridgeport, Conn. He was sixty-four years old. Mr. Auten had spent a considerable portion of his career in the design of steel mill, glass plant, paper mill, pumping and electrical machinery and equipment, and was at one time engineer of construction for Firestone Tire & Rubber Company. During the war he served as special coordinator of the petroleum, railroads and lumber divisions of the War Production Board.

William A. Fairburn

William A. Fairburn, president of Diamond Match Company, died October 1 at his home in Center Lovell, Maine. He was seventy-one years old. Mr. Fairburn, who was associated with the match company since 1909 and had been its president since 1915, was responsible for the development of a non-poisonous safety match made with sesqui-sulphide of phosphorus.

During World War I he discovered domestic resources of chlorate of potash, which had previously been imported from Germany. For his contributions to the development of safety matches, he was awarded the gold medal of the American Museum of Safety and the Louis Livingston Seaman gold medal.

John L. Gray

John L. Gray, retired oil industry executive, died October 1 in Rocky Hill, Conn. He was seventy-two years old. Mr. Gray, who retired in 1932, was a former manager of the Pierce Oil Corporation, vice-president of Barnsdall Oil Corporation, vice-president of Deep Rock Oil Corporation, and a director of the American Petroleum Institute.

Theodore Hofacker

Theodore Hofacker, vice-chairman of the board of the Egyptian Lacquer Manufacturing Company, Kearny, N. J., died September 27 at his home in Elizabeth, N. J. He was sixty-nine years old. A native of Germany, Mr. Hofacker joined the lacquer company immediately after coming to this country in 1899.

Warren J. Leary

Warren J. Leary, partner in the firm of Wm. M. Allison & Co., importer of gums and waxes, New York, died at his home in Brooklyn, N. Y., on September 27. He was sixty-nine years old. Mr. Leary was head of the firm's wax department for the past thirty-two years, and previous to his association with the Allison company was with Smith & Nichols Company.

William H. Matthews

William H. Matthews, president of the Forest Products Chemical Company, Memphis, Tenn., died in that city on September 28 after an illness of three months. He was seventy-four years old.

Mr. Matthews' career in the wood chemical business began in 1907 in Boyne City, Mich., when the bank of which he was president took over a wood chemical firm. He had been president of the Memphis company since 1914. In addition, he headed the Newberry Lumber & Chemical Company, Newberry, Mich.; the Crossett Chemical Company, Crossett, Ark., and the Mississippi Chemical Company, Charleston, Miss. He was also formerly chairman of the board of the Hardwood Charcoal Company, Memphis.

J. Stodgell Stokes

J. Stodgell Stokes, president of Durite Plastics, Inc., Philadelphia, and a director of the Pennsylvania Salt Manufacturing Company, died September 26 at Abington Memorial hospital, Philadelphia, of pneumonia. He was seventy-seven years old. Mr. Stokes was also president of Stokes & Smith Company, packaging machinery firm which he established in 1900; vice-president of Yarnell-Warning Company, maker of engineering specialties, and a director of the Provident Trust Company.

Harry A. Wallace, sr.

Harry A. Wallace, sr., retired president and general manager of United Fuel Gas Company and associated companies of the Charleston Group of Columbia Gas and Electric Corporation, died in Charleston, W. Va., on September 29 after a brief illness. He was seventy-four years of age.

A native of Oil City, Pa., Mr. Wallace started his career there as a rig and tank builder. In 1898 he joined the Hope Natural Gas Company and remained with that company for fifteen years. He became associated with United Fuel in 1912 and rose to the presidency in 1927. Since his retirement in 1943 he had been acting in an advisory capacity.

Dr. Elmer H. Wirth

Dr. Elmer H. Wirth, head of the department of pharmacognosy at the University of Illinois professional schools in Chicago and a member of the United States Pharmacopoeial Revision committee, died recently at the age of fifty-two.

An internationally known authority on drugs, Dr. Wirth had been a member of the faculty at the university since 1922 and head of his department since 1940. He was the author of seven books and more than 300 articles on pharmacy.

Charles E. Arnold, retired research chemist for E. I. du Pont de Nemours & Co., died September 20 at Memorial hospital, Wilmington, at the age of seventy-one.

Daniel K. Bailey, former official of the Grasselli Chemical Company, now the Grasselli division of E. I. du Pont de Nemours & Co., died October 1 in Cleveland at the age of seventy-three.

Charles E. Field, retired director, Chicago manager and controller of the National Lead Company, died October 1 at his home in St. Petersburg, Fla. He was ninety years old.

NPVLA Adds Two to 50-Year Club

The National Paint, Varnish and Lacquer Association has added C. D. Horton and U. Monroe Roberts to its Fifty Year Club. Mr. Horton is at present a partner in the Moline Paint Manufacturing Company, and Mr. Roberts is president of the American Paint Company.

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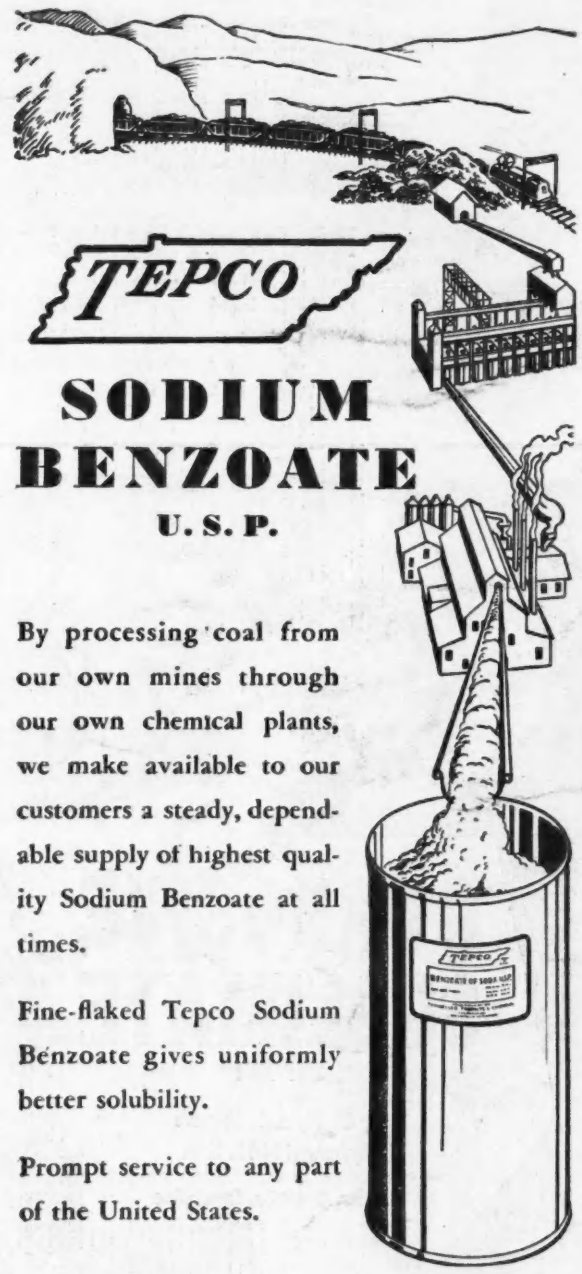

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German Arsenical Drug Processes Described

OPD Washington Bureau

German processes for manufacturing antiluetic and anti-typhus arsenical compounds at I. G. Farbenindustrie's Hoeschst plant are described in a report now on sale by the Office of Technical Services, Department of Commerce. The author, W. M. Swanguard, Department of Agriculture consultant, believes that some of these processes are of value to the American pharmaceutical industry.

One of the arsenicals discussed, 3-carbamido-4-hydroxy-5-iodo-benzene-arsonic acid, is claimed to have curative action against some Rickettsia diseases. Other compounds described in technical detail are salvarsan, salvarsan sodium, neosalvarsan, neosilversalvarsan, myosalvarsan, solusalvarsan, solvarsin solution, spirocid and allegan.

Orders for the report, PB-62869, "The Arsenical Pharmaceuticals of the Farbenwerke, Hoeschst" (photostat, $2 microfilm, $1, 28 pages) should be addressed to the Office of Technical Services, Department of Commerce, Washington 25, D. C., and should be accompanied by check or money order payable to the Treasurer of the United States.

Calco Publishes Bulletin Of Propylthiouracil Data

Calco Chemical Division, American Cyanamid Company, has published a technical bulletin on propylthiouracil, which contains detailed information on the pharmacology, toxicology, clinical studies and pharmaceutical application of this drug. Copies may be obtained from the division's Bound Brook, N. J., offices.

Sterling Drug Elects G. S. Hills Secretary

Sterling Drug, Inc., New York, has elected George S. Hills secretary to succeed Miss S. E. Park, who has retired. Mr. Hills is a director of Sterling Drug and of the American Viscose Corporation, American Machine & Foundry Company, International Cigar Machinery Corporation, and the Bacardi Corporation of America.

White Metal Mfg. Co. Names Rumbough Sales Head

White Metal Manufacturing Company, collapsible tube manufacturer, Hoboken, N. J., has appointed Stanley M. Rumbough jr. director of sales. Mr. Rumbough will continue to occupy the positions of director and secretary of the organization.

Pepsodent Names Schreiber Chief Control Chemist

Frederick W. Schreiber has joined the Pepsodent division, Lever Brothers Company, as chief control chemist. Mr. Schreiber was formerly director of research and quality control for the Personal Products Corporation, Milltown, N. J., a division of Johnson & Johnson. Previous to that connection, he was affiliated with Wyeth, Inc., Philadelphia.

Trade Briefs

American Home Products Corporation has declared a dividend of 10 cents per share, payable November 1 to stockholders of record October 14.

William S. Merrill Company, pharmaceutical manufacturer, Cincinnati, has completed an intensive revision of its label design. The new label has been adapted to all of the 475 products in the Merrill line.

McKesson & Robbins, Inc., chemical and drug manufacturer, New York, has appointed H. Stanley Goodwin as manager of the company's insurance department to succeed J. Albert Robinson, who is retiring.

Frank Euler, vice-president of P.W.R. Export Corporation, export subsidiary of Merck & Co., manufacturing chemists, Rahway, N. J., has left on a tour of South America to study marketing conditions and consult with local sales representatives in Argentina, Brazil and Uruguay.

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Bids Wanted

Acetone, 5,000 pounds, Panama Canal Purchasing Officer (Washington 25, D. C.) schedule 8772, October 14.

Alcohol, 30,000 wine gallons, Panama Canal Purchasing Officer (Washington 25, D. C.) schedule 8772, October 14.

Aluminum sulphate, 10,000 pounds, Veterans Administration (Murfreesboro, Tenn.) invitation 139, October 9; 40 tons, Army Quartermaster (Fort Bragg, N. C.) invitation E-13, October 8.

Calcium chloride, 1,000 pounds, Veterans Administration (Murfreesboro, Tenn.) invitation 139, October 9.

Carbon disulphide, 1,000 gallons, Panama Canal Purchasing Officer (Washington 25, D. C.) schedule 8772, October 14.

Carbon tetrachloride, 1,000 gallons, Panama Canal Purchasing Officer (Washington 25, D. C.) schedule 8772, October 14.

Casein, 350 gallons, Army Air Corps (Dayton 1, Ohio) invitation 259, October 15.

Caustic soda, 2,000 pounds, Panama Canal Purchasing Officer (Washington 25, D. C.) schedule 8772, October 14.

Cleaning compound, 2,000 gallons, Panama Canal Purchasing Officer (Washington 25, D. C.) schedule 8773; October 10; for spark plugs, 250,000 pounds, Army Air Corps (Wright Field, Dayton, Ohio) invitation 236, October 14.

Dowicide F, 12,000 pounds, Army Quartermaster (New York 3, N. Y.) invitation 200, October 10.

Drugs and Chemicals, Veterans Administration (Washington 25, D. C.) invitation A-44, October 8.

Green chrome oxide, in oil, 2,000 pounds, Panama Canal Purchasing Officer (Washington 25, D. C.) schedule 8727, October 13.

Hydrochloric acid, 4,000 pounds, Panama Canal Purchasing Officer (Washington 25, D. C.) schedule 8772, October 14.

Linseed oil, boiled, 7,800 pounds, and raw, 15,500 pounds, Panama Canal Purchasing Officer (Washington 25, D. C.) schedule 8771, Ocober 13.

Lubricant, 3,000 pounds, Panama Canal Purchasing Officer (Washington 25, D. C.) schedule 8773, October 10.

Luminescent material, 2,990 gram, Army Air Corps (Wright Field, Dayton, Ohio) invitation 290, October 10.

Magnesium oxide, 2,000 pounds, Army Chemical Center, Md., invitation 96, October 15.

Motor fuel, 10,000 gallons, Army Ordnance Department (Milan Arsenal, Tenn.) invitation 14, October 15.

Narcotics, City of Cleveland, ordnance No. 923-47, October 10.

Paint, enamel, 250 gallons, Army Air Corps (Eglin Field, Fla.) invitation 19, October 29; 7,884 gallons, Army Air Corps (Wright Field, Dayton, Ohio) invitation 271, October 15; 1,500 gallons, Army Engineers Corps (Mobile, Ala.) invitation 96, October 8; 300 gallons, Army Engineers Corps (Memphis 1, Tenn.) invitation 56, October 16.

Paint remover, 1,500 gallons, Army Engineers Corps (Mobile, Ala.) invitation 94, October 8; 1,600 gallons, Panama Canal Purchasing Officer (Washington 25, D. C.) schedule 8771, October 13.

Paint, various, 300 gallons, Army Chemical Center, Md., invitation 97, October 15; 100 gallons, Army Air Forces (Dayton 1, Ohio) invitation 259, October 15; 21,000 gallons, Army Engineers Corps (Mobile, Ala.) invitation 97, October 8; 6,750 gallons, invitation 94, October 8; 1,050 pounds, Department of Justice (Tallahassee, Fla.) invitation 25-1836, October 10; 69,500 gallons, Army Transport Corps (Marietta, Pa.) invitation 118, October 27; 6,000 gallons, Navy Department (Washington 25, D. C.) negotiation 4612, October 22; 2,000 pounds, Panama Canal Purchasing Officer (Washingon 25, D. C.) schedule 8771, October 13.

Phosphatizing material, 8,700 pounds, Army Ordnance Department (Metuchen, N. J.) invitation 42, October 10.

Phosphoric acid, 3,666 gallons, Army Ordnance Department (Milan Arsenal, Tenn.) invitation 15, October 8.

Photographic chemicals, Army Air Corps (Wright Field, Dayton, Ohio) invitation 244, October 16.

Pigments, in oil, 2,170 pounds, Army Engineers Corps (Mobile, Ala.) invitation 94, October 8; ground in japan, Federal Works Agency (Washington 25, D. C.) invitation 805, October 9.

Putty, linseed oil, 4,000 pounds, Panama Canal Purchasing Officer (Washington 25, D. C.) schedule 8771, October 13.

Red lead, dry, 15,000 pounds, Panama Canal Purchasing Officer (Washington 25, D. C.) schedule 8771, October 13.

Rubber cement, 35,000 gallons, Army Ordnance Department (Metuchen, N. J.) invitation 37, October 23.

Soap, laundry, 9,400 pounds, Army Quartermaster (Oakland 14, Calif.) invitation 29, October 10; dry cleaning, 5,850 gallons invitation 30, October 9; powder, 10,000 pounds, Army Quartermaster (New York 3, N. Y.) invitation 193, October 9.

Titanium-barium pigment, dry 6,000 pounds, and in oil, 10,000 pounds, Panama Canal Purchasing Officer (Washington 25, D. C.) schedule 8771, October 13.

Trichlorethylene, 550 gallons, Army Air Forces (Dayton 1, Ohio) invitation 254, October 13.

Turpentine, 550 gallons, Army Chemical Center, Md., invitation 97, October 15; 2 drums, Army Air Corps (Eglin Field, Fla.) invitation 19, October 29.

Varnish, interior, 3,000 gallons, and spar, 1,000 gallons, Army Engineers Corps (Mobile, Ala.) invitation 94, October 8; various, 2,400 gallons, Panama Canal Purchasing Officer (Washington 25, D. C.) schedule 8771, October 13.

Wood preservative, 2,850 gallons, Army Engineers Corps (Mobile, Ala.) invitation 94, October 8; 4,000 gallons, Panama Canal Purchasing Officer (Washington 25, D. C.) schedule 8773, October 10.

Wood sealer, 2,500 gallons, Army Ordnance Department (Metuchen, N. J.) invitation 41, October 25; 2,000 gallons, invitation 40, October 24.

Yellow ochre, in oil, 2,000 pounds, Panama Canal Purchasing Officer (Washingon 25, D. C.) schedule 8771, October 13.

Trade Briefs

Socony-Vacuum Oil Company, New York, plans to return fourteen of its departments to the company's headquarters at 26 Broadway, New York, as soon as the headquarters of Standard Oil Company of New Jersey is transferred from that building to its own new building in Rockefeller Center.

Laurence C. Bergquist, former lieutenant commander in the USNR and member of the foreign marketing staff of Standard-Vacuum Oil Company, New York, has been awarded the Legion of Merit and has been authorized to wear the combat "V" for service in the Gilberts-Marshalls area in 1944-45.

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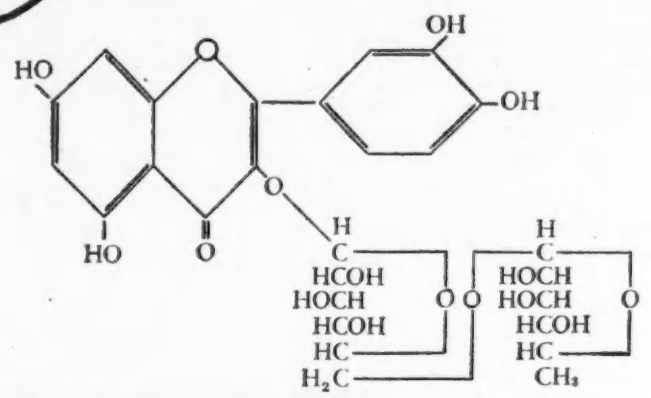

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Botanical Drugs, Spices, Gums

Price activity in the botanical market was concentrated last week in the flavoring section of the list. The main trend of quotations was upward, a fact in line with the recent reports of shortages that were prevailing without hope of early relief save at possibly higher costs at the origins. The advances took place almost exclusively in the seed group, the declines being in cassia and nutmeg spices, plus dewhiskered dillseed. Seeds ending the week at higher price position were Cyprus anise, caraway, coriander, and mustard. Vanilla beans completed the picture, Mexicans being down.

Medicinal drugs passed through a week of price inactivity. There is little room in prices as now setup for declines. Primary market costs provide a fairly stable anchor for spot quotations and last week they remained very steady regardless of the lack of more than moderate request. The tendency of local dealers was to maintain the present price schedules so far as possible while awaiting the rejuvenation of consuming demand.

Reports from the domestic primary market indicate the normal falling off of deliveries into the collection depots. A better than fair part of the drugs gathered have been collected by now. At present, only those items that are best collected in middle to late fall are receiving major attention. And the arrival of such goods is on a definitely conservative scale.

The foreign primary markets are tough places in which to trade. Economic conditions are almost chaotic. Political relationships are strained. City and country are wide apart, the former suffering for lack of supplies from the latter. And capping it all is that horrible mess—foreign exchange. Were it not for the exchange morass, considerably more business could be done, but just as there are black markets in food, so are there black markets in exchange and the blackest of the black seems to be in North Africa from whence comes considerable botanical merchandise. The whole foreign picture is not pleasant to view and it certainly works against an entirely satisfactory import situation in foreign botanicals.

Balsams

Copaiba—The market was very steady to firm under fair sized but not expensive trading in local circles. Replacement costs were reported as holding very steady throughout the past week.

Fir—Especially firm prices prevailed on Canadian balsam which continued in light supply and subject to very firm replacement costs at the origin. Oregon balsam was steady. Demand for both was fair in volume.

Peru—This item was not too firm locally because of the presence of considerable competition for the limited amount of requests reaching the spot last week. However, open quotations were free from quotable change.

Tolu—Competition was less aggressive and prices appeared to have undergone solidification at the levels reached during the recent and quite substantial reduction in spot quotations. Demand was moderate.

Barks

Angostura—The arrival during the previous week was understood to have been drawn on considerably to take care of earlier committments with manufacturing consumers. Prices held very firm.

Buckthorn—Although not plentiful on spot, enough bark seemed to be available to care for the currently not very substantial demand for prompt deliveries. Undertones were firm. So were prices.

Cinchona—A leading domestic manufacturer of quinine has returned to the market a wider list of prices on salts than had been quoted in the market for a very long period of time. Apparently the situation as concerned supplies of cinchona bark has undergone considerable improvement.

Imports Detained by FDA

Week Ended September 26

Cassia, 6 barrels: insect infested.
Cocoa beans, 221 bags: water damaged.
Grape color, 16 barrels: copper.
Mace, 67 packages: insect infested.
Nutmegs, 210 bags: moldy and wormy.
Orris root, 22 bags: insect infested.
Paprika, 650 bags: filthy.
Pepper, black, 768 bags: insect infested.
White, 140 bags: insect infested.
Sesame seed, 700 bags: insect infested.

Market Trends

Prices Advanced

Drugs

None

Other Articles

Anise, Cyprus, 2c. per lb.
Caraway seed, Danish, 2c. per lb.
Dutch, 2½c. per lb.
Cassia, Saigon, thin, 6c. per lb.
Coriander seed, Argentine, ½c. per lb.
Morocco, ½c. per lb.
Peru, ½c. per lb.
Mustard seed, Danish, yellow, ½c. per lb.
Montana, brown, new crop, 2c. per lb.
yellow, new crop, ½c. per lb.
Sage, Dalmatian, ½c. per lb.

Prices Reduced

Drugs

Vanilla beans, Mexican, whole, 50c. per lb.
cuts, $1 per lb.

Other Articles

Cassia bark, Batavia, broken, 1c per lb.
Cassia buds, China, 1c. per lb.
Dillseed, dewhiskered, 1c. per lb
Nutmegs, West Indian, ½c. per lb.

Comparative Price Indexes

(100=August 1, 1914)

Last week.	Prev. week.	Last month.	Last year.
259.0	259.0	264.0	275.7

(For Current Prices see Page 9)

Cascara Sagrada—The market here and on the Pacific coast was reported developing a considerably firmer undertone. Stocks at the source were no danger to the maintenance of a firm price position there. Indeed, the supply situation to some suggested that higher prices would come if further substantial withdrawals from Coast reserve stocks should take place.

Soap—Some kind of a record was made last week when the list of merchandise reaching this port included 3 bales of soap bark from Melbourne, Australia.

Beans

Vanilla—Prices on Mexican beans became lower last week, whole beans dropping to $10 to $11 per pound and cuts reaching $8.50 to $9. The movement appeared to be based on the greater availability of merchandise and the rise of more competition than had appeared in the market for some time past. Bourbon beans lacked quotable change but the arrival of 764 cases from Tamatave, Madagascar, was a considerable addition to spot stocks and tended to create a somewhat easier if not exactly weakened prices in local circles.

Berries

Cubeb—Business was in jobbing quantities when any was done in the spot market last week. However, the absence of replacement arrivals over a considerable period of time had resulted in a curtailment in the size of stocks unsold on this market and that fact tended to make for exceptionally steady prices.

Juniper—Major users of this item seemed well supplied with spot stocks in warehouse. Activity among dealers in the article was not especially noteworthy, consisting mainly of orders from comparatively small users of the item. Prices were easy but unchanged.

Flowers

Arnica—Prices held more than steady when the current volume of demand was considered. The recent period of substantial weakness in local quotations appeared to have passed and the general situation was steadier in all respects during the past week.

Chamomile—Jobbing business was very good last week, volume building up nicely from the presence of numerous orders calling for moderate quantities of good quality merchandise. Prices seemed to have gained in steadiness by the close of the trading period.

Rose—Plenty of pale rose flowers seemed available in local quarters, being considerable larger than the wants of buyers coming to trade in this market during the past week. It was a buyers' market in most respects.

Saffron—Spanish flowers moved mainly in single pound lots but the item seemed freely available at the minimum of spot quotations regardless of the quantities to be taken. However, it was intimated that quoted prices might be shaded if a large quantity was purchased.

Gums

Arabic—The market continued to prevail in steady price position, the recent advance not being extended but consolidated into a position of some strength. Sellers were

For Late Market Developments, See Page 4

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not disposed to accept bids last week, pointing to the lack of more favorable replacement costs as being the obstacle to the development of lower quotations at this time. Stocks were said to be in fair shape.

Asafetida—Demand for lump was light and reached the spot irregularly throughout the past week. Supply was not excessive but it was better than fair in size and was well distributed among local dealers.

Benzoin—The market continued to display signs of rather keen competition between local suppliers of Sumatra gum. Stocks were ample for considerably more than current requirements or takings of consumers and the absence of sustained trading tended to keep the market placed favorably for consumer operations on whatever scale.

Myrrh—Dealers are looking forward to some increase in demand for this gum with the advent of the winter season and its seasonal ills that bring a rise in the consumption of myrrh. Price-wise, the market continued to be exceptionally steady.

Sancarac—North African shippers approached this market through representatives now attending the meeting of the United Nations. They are seeking an increase in the shipments of this gum and appeared to be able to offer substantial quantities. The prices asked were not disclosed by those to whom overtures were made.

Herbs and Leaves

Adonis Vernalis—The market took in the recent arrival without the price situation being disturbed in the least. The activity last week was rather narrow and productive of a comparatively low volume of transactions. Quotations remained very steady.

Belladonna—Demand was not better than fair but the market continued display all of the steady qualities prevalent for a considerable period of time. Competition was negligible since spot prices and the cost to replace the present supply are in proper alignment.

Catnep—Inquiries failed to turn up more than moderate supplies on spot and in the primary market. Prices were very firm at both points, the element of competition being absent.

Damiana—Information from the origin showed no weakness in price views held by the shippers. Locally, the market was comparatively quiet but it was also very steady so far as prices were concerned. Stocks available on spot were distinctly moderate in size.

Horehound—Sales were expected to show some seasonal improvement within the nearby future. Undertones have been very steady throughout the recent period of extended inactivity of buyers.

Hyssop—The call was steady but involved large quantities in few instances. Trade was sufficient to hold all prices very firm.

Sage—Dalmatian on spot and in future position continued to command rising prices. Spot became 29c. to 29½c. per pound and futures went to 28½c. to 29c. During the past week, 465 bags of Cyprus material reached here from Beyrouth, Syria.

Senna—Demand freshened somewhat last week and totals of sales had gained moderately by the close of the trading period. Prices in all markets—here and abroad—were firmer and better maintained and shippers were not disposed to accept many bids.

Thyme—Seasonal demand has risen considerably and the spot revealed steadiness in price as its outstanding characteristic. Products involving the use of thyme and whose distribution increases in the Winter months have already felt the increasing pressure of demand and hence consumption of thyme has risen considerable in such directions.

Miscellaneous

Areca—The supply of areca nut powder is due for an increase. During the past week, an importation of 80 bags from Colombo was noted. Powder continued to in reasonable easy position because of the recent gain in competition between sellers.

Balm of Gilead—Sales show the result of seasonal influences and they also reveal that stocks now in hand are not overly abundant. They have been acquired at a comparatively high cost, which finds reflection in the extremely firm position held by spot quotations.

Cantharides—Chinese flies were plagued considerably by competition when a few orders appeared in the market last week. Some shading of prices was reported to have taken the business without dealers generally adopting a lower level for their open market quotations.

Ergot—The very large quantity arrived during the previous week and said to be around 17 tons failed to produce lower spot

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Dr. Samuel Thomson claimed its discovery but it was used by the Penobscot Indians and New Englanders long before Thomson's time. Thomson called it Emetic Weed and Emetic Herb. Its properties suggested Puke Weed, Vomit Weed and Gag Root, popular names that followed.

Lobelia got wide public notice when Dr. Thomson was tried in a Massachuetts court following a patient's death from alleged administration of the herb.

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Oct. 6, 1536—Tyndale, Bible translator, burned at stake.

Oct. 8, 1871—Great Chicago Fire.

Oct. 10, 1845—U. S. Naval Academy opened.

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quotations during the period under review. This was possible because the present replacement cost tends to make $1.05 per pound a fair price in line with the market quotations prevailing abroad.

Kola Nuts—Users were assured of a continued satisfactory stock of this article when 312 bags reached here from Kingston, Jamaica. Little shifting of primary market replacement costs has been noted for some time, price and accounts for the market stability governing spot quotations generally.

Papain—Strength continued the feature of prices and said strength traced to what has to be paid in foreign parts to get papain of a satisfactory strength. The wide range in prices was due to differences in the strength of the material quoted.

Roots

Alkanet—The moderate demand prevailing for this article over a number of weeks continued neither to gain nor lose. It was jobbing business that was sufficient to maintain prices in very steady position.

Beth—Not much material is in hand at the present time and not much was need during the past week. A few orders confirmed recently quoted prices.

Dandelion—The material moved in fair but not increased volume last week, contributing to the already quite steady market position of the item and restricting competition to comparatively narrow limits.

Galangal—Eonugh material to care for requirements of a fairly distant future was in hand locally last week. Prices were about steady but especially attractive demand might lead to lead pencils being sharpened.

Gentian—Prices have steadied since the last decline. They were said to line up well with the replacement cost in European markets and to prevail at levels not profitably to be shaded at this time.

Licorice—The tobacco trade has consumed very large quantities of this root thus far this year and reports indicate that they will continue to be heavy buyers in primary markets wherever located.

Seeds

Anise—Cyprus seed moved actively and brought prices to the higher level of 27½c. to 28c. per pound. Inquiries for Syrian seed were noted but there is none on spot now. Arrivals of Mexican seed totaled 289 bags from Vera Cruz last week.

Caraway—Danish was higher and still nominal at 18c. per pound. Dutch seed advanced to 18½c. to 19c. for spot and the same was quoted for future deliveries here.

Coriander—A total of 825 bags was reported arriving here last week and the goods came on a rising market. Argentine seed went to 8½c. to 9c. per pound; Morocco, 9½c. to 10c.; Peruvian in future position, 9½c. to 10c.

Cumin—Anything can happen in Mexico and often does but it was something added when an arrival of 100 bags of cumin seed originating at Vera Cruz appeared in the incoming manifests last week.

Dill—Dewhiskered material was slightly easier and considerably lower at 12c. to 13c. per pound last week.

Mustard—Reports from Montana state that a deal of the crop was hurt by the snow and bad weather that has afflicted that semi-arid state of late. Prices for the Montana seeds were gradually approaching the levels that European seeds now fetch. Dutch yellow was advanced to 18c. to 18½c. per pound for spots and ½c. more was asked for future arrivals. The little Danish yellow available was held for fully 18c. to 18½c. per pound. Montana brown from the old crop was up to 15c. to 15½c. and new crop went to 12c. to 12½c.; New crop yellow was up to 17c. to 17½c. and new crop oriental was 7½c. to 8c.

Poppy—Danish seed was higher at 22c. to 22½c. per pound and Dutch became 23c. to 23½c. despite the arrival of 2,050 bags from Rotterdam. Argentine seed remained unchanged at 19c. to 19½c. and 200 bags came in from Buenos Aires.

Spices

Cassia—Broken Batavia cassia was lower at 18c. to 18½c. per pound. China buds were also reduced, being offered at 23c. to 24c. Saigon all medium material was higher at 36c. to 37c. and all thin was sharply higher at 39c. to 40c.

Clove—Prices remained very steady in all markets. Arrivals totaled 1,807 bags from Tamatave, Madagascar.

Mace—The market was subject to very little activity, yet prices remained steady in all quarters. An arrival of 40 cases from Singapore was noted.

Nutmegs—West Indian material continued to decline, reaching 51c. to 51½c. per pound last week.

Pepper—Black pepper has become rather tight in supply and demand last week was sufficient to push quotations to 42c. to 42½c. per pound. White pepper went to 55c. to 56c. In red peppers, Mississippi's were shaded to 21c. to 21½c. per pound. Niger was down to 20c. to 20½c. and the Nigerian hirdseye became 37c. to 38c.

Markets at Other Centers

Los Angeles, Oct. 2.—Business in botanical drugs and spices remained fairly active here this week. Buying interest was good. Prices were steady, as follows:—

Marjoram, French type, 45c. per pound in dried form.

Sage, Dalmatian type, 28c. per pound for lots said to contain less than 12 percent stems.

Savory, French type, 60c. per pound.

Sweet basil, 85c. per pound for lots containing less than 12 percent stems.

Thyme, French type, 70c. per pound in dried and clean form.

McBain Notes Advances In Industrial Research

Dr. James W. McBain, professor of physical chemistry at Stanford University, was guest speaker at a recent meeting of the research and technical staff of the Calco Chemical Division of the American Cyanamid Company, Bound Brook, N. J. His topic was "Solbilization."

Commenting on the great advances which have been made by industrial research, Dr. McBain observed that there is a great tendency in too many college research laboratories to become too far removed from the field of practical application. In the latter, he said, hard stubborn facts predominate that do not fit in with the scientific theories that are almost a necessity in college classrooms. Industrial application is ten years ahead of scientific theory and offers a continuous challenge to academic men whose duty it is to find the rational explanation for it and thus further research, according to Dr. McBain.

Drug Trade Pact Signed By Spain and Sweden

The governments of Spain and Sweden have renewed a mutual trade agreement whereby Sweden will export 400,000 Swedish crowns worth of pharmaceuticals to Spain during the period March 1, 1947, to February 28, 1948. Spanish exports to Sweden during the same period will include shipments of pharmaceutical products valued at 300,000 Swedish crowns.

Trade Briefs

Standard-Vacuum Oil Company, New York, has elected as directors of the company, A. W. Bourne, jr., general manager of the China division, and H. W. McCabb, head of the company's producing operations.

Kenneth D. Lozier, vice-president of the St. Regis Sales Corporation, New York, states that a strong present-day trend toward paper packaging may soon result in the use of 250,000,000 multiwall paper bags annually for the shipment of fertilizers and fertilizer ingredients.

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Essential Oils, Other Aromatics

The long anticipated strengthening of the essential oils and aromatic chemicals markets seemed definitely to have arrived last week. The price index for these groups began to climb upwards for the first time in months.

The essential oils market during the week showed advances in four products and declines in a like number, but the products that went up far outweighed the effect of those that dropped. The aromatic chemicals market was without particular feature except that the coal tar derivatives were still somewhat difficult to obtain. Among the essential oils coriander gained most during the week, principally because of the lessening supply from Russia. New crop influences sent spearmint up somewhat, although that product still had not found its level. Dillweed prices increased because of short supplies and particularly heavy demand, and dealers in that product were anticipating even further rises. An increasing demand for origanum also was responsible for causing that oil to climb.

Oil of peppermint was one of the products that went down slightly, but because of the new crop influences it was felt that this item still had not reached the final levels for the movement. Lessening demand, plus good supply of bois de rose, cardamom and lavender flower oils tended to bring down prices of those items.

A general post-Labor Day pickup and preparations for Christmas were the main reasons given for the better tone of last week's markets. Added to these causes were the increased activities in the pickling and canning industries and the larger production being started by the manufacturers of medicinal preparations.

The import situation was considered good, and although dealers were having some difficulty in obtaining a few products, there was no real pinch and some other products, particularly lavender flower oil from France, were coming in in such quantities that the market was dropping.

Aromatics dealers also reported that their supply situation in general was easing and products that had been available in only small quantities previously were now being sold freely. About the only real difficulty was with the coaltar supply and it could not be determined when that situation would ease.

Market Trends

Prices Advanced

Coriander oil, $6.50 per lb.
Dillweed oil, 25c. per lb.
Origanum oil, 10c. per lb.
Spearmint oil, 75c. per lb.

Prices Reduced

Bois de rose oil, Brazil, 10c. per lb.
Cardamom oil, $3.50 per lb.
Lavender flower oil, 30-32 percent ester, 20c. per lb.
Peppermint oil, natural, 25c. per lb.

Comparative Price Indexes

(100=August 1 1914)

Last week.	Prev. week.	Last month.	Last year.
153.4	152.6	153.3	226.3

(For Current Prices see Page 9)

Essential Oils

Angelica—The high range of $120 to $250 a pound was still making this product hard to move last week, and some dealers reported that demands were light, while others said they were not stocking the item because of the high cost.

Birchtar—Supplies of the crude oil continued at a low level last week. Only small quantities were available because of the minor offerings being made by the Russians. Demand for the product, however, matched supply. The price range of 95c. to $1.76 remained unchanged.

Bois de rose—Efforts to maintain the price of this product at about $4 had apparently failed and last week another drop in the range was reported by one major dealer. During the period under review the product went down to $3.40 from the $3.50 figure last listed. Although the inside figure had gone down over a period of several weeks, the outside remained the same and was still listed at $5.50. Dealers said large stocks of the product were available but there was not sufficient demand to absorb the supply.

Cajeput—Both the technical and redistilled products last week were just about pricing themselves out of the market, and some dealers reported that they were not stocking either product because the high prices they must charge for them had caused demands to fall off to practically nothing. Prices for both products were unchanged.

Cardamom—A drop of $3.50 a pound was noted for this product during the period under review. The reason for the decrease, it was reported, was the excellent supply and only a slow demand. The new inside figure was established at $20, while the outside remained unchanged at $31.50.

Clove—This oil was said to be in a good position both as to supply and demand last week and the price range remained unchanged at $1.35 to $1.70. During the period under review ninety seven casks of the product arrived in this country from Tamatave, Madagascar.

Coriander—This oil strengthened considerably on last week's market and one dealer who had been selling the product at $17 a pound increased the price to $23.50. Even though that was regarded as a considerable change, other dealers reported that they were selling the oil as high as $28. It was difficult to determine whether this was only the beginning of a greater price rise or whether the oil was likely to remain at about this position. The reason for the increase was the slow supply from Russia. Whether more stocks of the product will be available from that country in the future was not known, but judging from the offerings that had been made in the recent past, dealers were sceptical as to supply and were advancing their prices to meet replacement costs. Demand for the oil was said by most dealers to be good although a bit on the spotty side.

Cypress—Supply of this oil was reported to be fair during the period under review, but there were no shortages because the demand for it was small and some dealers for that reason were not even stocking it. There were no reported changes in the price range of $11 to $15.

Dillweed—This product continued to climb last week, as had been predicted for some time, with the inside of the range advancing from the $4.75 figure of the week before to a new figure of $5. The dealer who established this new inside price had been forced to advance the price steadily for several weeks because of the poor supply of the oil. He said that unless more of the product should become available or unless demand should taper off, which was unlikely, the price might be expected to climb even further. Some dealers were selling the oil as high as $6 and it was considered possible that even that figure might be increased. The product was in low supply because of a poor crop season and at this time of the year demand for it was great because of the large amounts of the oil used in the pickling trade. Requests for the product from that source were at their height and were not expected to fall off for some time yet.

Erigeron—Demand for this product was poor last week, although a fair supply was able to accommodate all orders for it. Some dealers were not handling it because of the few requests and there were no changes reported in the price range of $2.30 to nominal.

Eucalyptus—Prices for the various grades of this product were unchanged last week and supply and demand were largely what they had been for several weeks past. The only item of interest regarding the product was the arrival in this country of 102 drums from Sydney, Australia.

Grapefruit—The recent hurricane in Florida, despite the fact that it caused considerable damage in the citrous producing areas of that state, had no effect on the price range of this oil. Dealers were still selling the product at $2.25 a pound on the inside. The outside advanced from $2.30 to $2.50 but that was only for small lot quantities and it was known that dealers would shade that figure for orders in large quantities. The hurricane merely blew fruit from the trees but did not affect its oil yielding qualities.

Lavender flower—An extremely heavy supply of this product from France during the past month or more was responsible for a further decrease last week in the price of the 30-32 percent ester. One dealer reported dropping the price of the oil from the $5 figure of a week ago to $4.80, although the outside of the range was still unchanged at $8. The product was in very slow demand as compared to the supply and because of this relationship it was considered possible that the price would drop even lower.

Lemon—The Messina last week was reported out of stock by several dealers, largely because the poor quality of the oil of late had made it difficult to sell. Supply of the product was said to be fair.

For Late Market Developments, See Page 4

There were no reported changes in the price range of $3.65 to $3.85.

Lemongrass—The market for this product was quiet last week, with no reported price changes, and the supply and demand pictures held to their previous conditions. Dealers in New York reported the receipt of six drums of the oil from Cochin, India and one drum from Port au Prince, Haiti.

Mace—Some dealers reported that they had no stocks of this oil during the week, although there were reasonable supplies of it available from other houses. Demand was said to be fairly light and the price range of $6 to $8.75 was unchanged.

Nutmeg—The $5.50 inside price for this oil remained unchanged last week, although that figure was considered fairly low and most dealers were selling at somewhat higher figures. The product was listed as high as $8.75 at one house. Demand was reported to be good. The supply was only fair but was expected to be sufficient to meet most reasonable requests.

Orange—The Florida product was unchanged in price last week, and fears that the price range would be affected as a result of the recent hurricane proved groundless. Great quantities of fruit were blown to the ground by the storm, but otherwise there was no actual crop damage and the oil will be taken about as usual, it was reported. The price range remained at $1.40 to $1.65.

Origanum—This oil was in excellent demand last week and the steadily increasing requests for it were responsible for some strengthening in price. The product went up to $3.25 a pound from the previous week's listing of $3.15 and there were indications that it might go even higher. The outside of the range remained unchanged at $3.50.

Peppermint—A drop of 25 cents from the last listed price was reported for the natural product last week. The new crop is in and distilled, and what the oil will eventually settle at was a matter of conjecture. On the one hand, there was a heavy demand for the product both here and abroad, but on the other hand, the farmers have a tight grip on their market and were, of course, holding out for the best prices they could get. The new range was $8.25 to $8.75.

Pimento—Both the berry and leaf oils were unchanged as to price last week and some suppliers reported that they were out of stock of the berry oil, although there were no reported shortages of the leaf product. The berry was being quoted at $4.25 to $6.50 and the leaf at $1.95 to $3.25.

Spearmint—This oil had been listed for some time at $6.75, which was considered a very low figure, but last week it went up to $7.50 on the inside, which dealers felt was a more reasonable level. The outside remained unchanged at $11. New crop influences have placed this product in an uncertain position and it will probably be several weeks yet before the price range settles down.

Ylang Ylang—The various grades of this oil were unchanged as to price last week, and in about the same position in which they had been for some time regarding supply and demand. The only item of interest regarding the product during the week was the arrival of three casks of oil from Tamatave, Madagascar.

Aromatic Chemicals

Coumarin—The supply of this product was found to be much easier during the past week, but demand was running light. The item was still being sold at $2.75 a pound.

Geraniol—With plenty of raw materials available, the prime was said to be in excellent supply last week and was adequate

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to take care of the heavy demands that were being made by soap manufacturers. There was no reported change in the price of $2.75.

Linalool—There was only a fair demand for the ex bois de rose during the period under review, but the sunpply was considered good and dealers were having no difficulty in furnishing the product. They were still asking the old prices of $6.05 to $6.65.

Linalyl Acetate—There were no reported changes in the price range of $5.75 to $7.60 for the ex bois de rose last week, largely because supply exceeded demand. Requests for the product have not fallen off alarmingly, it was reported, although dealings in the item were only at a fair level.

Musk—This item came in for only small interest in the market last week and there were no reported price changes for the various types. The ambrette, however, was said to be in fairly tight supply because of difficulties in obtaining sufficient coaltar, from which it is derived. Demand was considered good, and more of the product could probably have been sold if it were not for the supply situation. The item was still being sold at $8 to $14.25.

Johnson & Johnson Merges Two Affiliate Companies

Tek Hughes, Inc., has been formed as a fully integrated affiliated company by Johnson & Johnson, Inc., by merging two former brush manufacturing affiliates. Officers of the new organization include chairman of the board R. H. Goldman, president and general manager H. J. Henry, executive vice-president J. F. Bales, and vice-president in charge of sales J. J. Flood.

Gerard J. Danco, Inc. Elects Hasslauer Director

Gerard J. Danco, Inc., importer and dealer in essential oils, New York, has elected Victor Hasslauer, of Paris, France, a director of the company. Mr. Hasslauer is reputed to be the greatest expert on musk, civet and ambergris and is considered the dean of the essential oil industry in Paris.

Harriet Hubbard Ayer Names Mrs. McVickar Adv. Head

Harriet Hubbard Ayer, Inc., cosmetics manufacturer, New York, has appointed Mrs. Elinor G. McVickar director of advertising, promotion and merchandising. Mrs. McVickar was previously director of advertising and general styling of Dorothy Gray Laboratories.

Colgate Receives Safety Award

The Colgate-Palmolive-Peet Company, Jersey City, N. J., has been awarded the National Safety Council's award of honor for distinguished service to safety. The plaque was presented to E. H. Little, president of the company, in recognition of the safety record attained by it during 1946, when it had fewer lost-time accidents than in any year in its history.

Fleuroma Sales Manager

Rupert C. Watson has joined Fleuroma, Inc., New York, as sales manager for the company's full line of perfume specialty oils, aromatic chemicals and essential oils. A former member of the editorial staff of the OIL, PAINT & DRUG REPORTER, Mr. Watson has for the past twelve years been resident partner and managing director of Firmenich & Co., New York.

N.Y. Board of Trade Dinner October 23

The New York Board of Trade will hold a "Business Speaks" dinner at the Waldorf-Astoria hotel on October 23. Principal speaker for business will be Earl O. Shreve, president of the Chamber of Commerce of the United States, and Mayor William O'Dwyer will also address the gathering. An award will be made to the outstanding businessman of New York for the greatest contribution of the year to business.

Trade Briefs

Princess Eve Products has been named distributor in the United States for 'Eros,' a new perfume made by Parkinson, Inc.

Calcium carbide and cyanamide plant will be established in Santander Province, Spain, by the Union Quimica del Norte de Espana.

Max Factor & Co., cosmetics manufacturer, Hollywood, Calif., has named Julius Weinstein manager of its New York buying office.

Helena Rubinstein, Inc., cosmetics manufacturer, has leased 55,000 square feet of storage space in the former American Drug Syndicate Building, Long Island City, New York.

Revlon Products Corporation, cosmetics manufacturer, New York, has appointed Murray M. Spitzer as assistant advertising manager. He was formerly advertising manager for Hecht Company, New York.

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Petroleum Derivatives

There was a heavy demand continuing last week for all petroleum products, and while production was going forward at full capacity at an unprecedented level, the industry was hampered by lack of sufficient transportation facilities to deliver the goods promptly.

Aromatic solvents held firm in price under strong demand. Benzol from petroleum was being produced on the West coast in tankcar quantities. Xylol and toluol were reported to be in good overall balance with demand, with spot shortages here and there in certain areas. Aliphatic solvents on the West coast were more readily available than in the East, due largely to less demand. V. M. & P. naphtha and rubber solvent were still short, while other aliphatic solvents were in reasonably good supply, hampered only by shipping difficulties.

Fuel oil stocks were below normal in the Eastern and Gulf areas, and demand was increasing due in part to the early cold weather. Midwestern areas reported a tight fuel oil supply situation. Pennsylvania fuel oils advanced, together with all Pennsylvania light products, reflecting the crude oil price advances put into effect some weeks ago.

Gasoline supplies and stocks in the Midwest were reported to be in a critical state with inventories at a bare minimum. Meanwhile demand for gasoline continued strong, although last week saw a slight decline in demand for gasoline, and an increased demand for fuel oil in this area. Some suppliers of gasoline and other light products continued to fall in line with competition and roll back prices to meet the current policy of holding the line on prices. Still a few others held out at the higher levels which they had recently established.

The price advances in Pennsylvania crude derivatives were not limited to light distillates, but extended to lubricating and cylinder oils of various viscosities.

Midwestern prices held firm on most light distillates, but there was reported some retraction of previously higher posted prices on heavy and residual oils. Some shading of the lows were hinted, but not factual.

Scale, refined, and microcrystalline waxes were in the usual strong demand with prices firm and supplies insufficient to meet the heavy demand from the food container and other industries.

Technical white oils were in strong demand against a shortage of supply, U.S.P. white oils were in balance with demand, and petrolatums were weak.

Solvents and Diluents

Aromatic Solvents—Benzol production from petroleum sources on the West coast was reported to be considerably augmenting the supply of coaltar benzol and was being shipped in tankcar quantities. Supplies of toluol and xylol type petroleum aromatic solvents were reported to be available last week in sufficient amounts to meet demand. There was no scarcity of petroleum aromatic solvents reported on the West coast or along the Eastern seaboard, except to the extent that shipments were hampered by the lack of tankcars. Mid-western areas were reported to be experiencing some difficulty. Prices remained firm.

Cleaners Naphtha—Nothing new developed in the clearners naphtha market last week, except that shipments were reported to be somewhat more prompt in certain areas. Prices in the range of 12½c. to 13c. per gallon prevailed in the New York and New Jersey area. Group 3 refinery prices were set at 9.37½c. to 9.62½c. per gallon.

Lacquer Diluent—The various evaporating rates of this material were reported to be moving in good volume at prices of 13c. to 13½c. per gallon on the East coast, and refinery prices on the West coast were set at 12.8 cents per gallon. In group 3, refinery prices were posted in the range of 9.87½c. to 10.62½c. per gallon for the benzol type, and 9.37½c. to 10.12½c. per gallon for the toluol type.

There was reported a growing demand from industrial lacquer finish manufacturers in the Eastern area. On the West coast, it was stated that there was no shortage of material, and the solvent was available in large quantities. For purposes of fast evaporation, considerable quantities of heptane were being used in this solvent. Heptane produces fast evaporation rates, coupled with low solvency.

Mineral Spirits—West coast supplies of this solvent were reported to be ample to meet all demands. It was quoted in that area at 12.8c. per gallon. In the Midwest prices held firm in the range of 15.9c. per gallon in Chicago. In the New York and Philadelphia areas prices ranged from 12½c. to 13c. per gallon. Except for some delays in shipping, resulting from transportation difficulties, supplies of mineral spirits appeared to be ample.

Rubber Solvent—This market was experiencing a lack of sufficient supplies, and in this regard was unchanged from the situation reported the previous week. Prices held firm in all areas.

Stoddard Solvent—The market situation with respect to Stoddard solvent supply and demand was one of fair balance. Prices held firm at their current levels.

V.M. & P. Naphtha—West coast suppliers of V.M. & P. Naphtha were quoting 13.8c. per gallon in the California area. There, supplies were reported to be ample to meet the demand, and apparently the West coast area was not experiencing the lack of sufficient supplies that characterized the East coast. This was due to the lower demand in relation to the volume of production on the West coastal area. New York and New Jersey prices were in the range of 14c. to 15c. per gallon.

Fuels and Lubricants

Imported from Curacao, Aruba and Tampico were some 261,724 barrels of fuel oil. Fuel oil stocks in the East last year were reported to be 22,000,000 barrels as of October 1. This year, it was estimated that fuel oil stocks in the same area were approximately 19,200,000 barrels. This current stock is therefore lower than at the same period last year, and demand this year is expected to be 6 to 6½ percent higher due to new oil burner installations. Current stocks, it was estimated should be up some 7,000,000 barrels in order to be in a safe position with respect to probable demand. Much the same situation prevails with respect to residual oil, while the stocks of kerosene were reported to be in better position. The recent cold snap which has hit the East and continued for some weeks has caused a considerably increased demand for fuel oil, causing consumption which had not been anticipated at this early date. This situation was looked upon in some quarters as likely to forecast a shortage to develop later in the winter unless production is substantially stepped up.

Western producers indicated that the heavy fuel oil supply situation was perhaps at its worst, and a tight supply situation likely to prevail until the early months of 1948. Demand was reported to be heavy for residual oils, with a somewhat unstable price structure prevailing at retail levels.

In the East, bunker C oil was offered under a non-uniform price structure by different producers, a price spread of 30 cents per barrel prevailing at most points. This was brought about by some producers raising prices, while others followed a "hold the line" price policy.

Pennsylvania oils were advanced in price, following the recent advances in the various grades of Pennsylvania crudes. Diesel oil was being quoted at the refineries 8.75 cents to 10 cents per gallon. Furnace oil Number 1 was advanced to 9.12½ cents to 10 cents per gallon. Number 2 furnace oil was advanced to 9 cents to 10 cents per gallon, and Number 3 oil to 8.75 cents to 9.5 cents per gallon.

The continuing advancing price structure on Pennsylvania lubricating oil which has steadily increased over the past year was priced at 33 cents to 38 cents per gallon for the 600 to 680 grade, while the 600 to 650 grade was set at 37 cents per gallon. Pennsylvania neutral cylinder oil advanced to 37 cents to 39 cents per gallon for the 150 viscosity type, and 39 cents to 41 cents per gallon for the 200 viscosity type.

In the Mid-west, little trading was done in the open market with the exception of some spot trading in heavy fuel oil. Plenty of demand and consumer interest was apparent, but there were no offerings. Posted prices remained essentially unchanged, and premiums were not accepted. Trading in heavy fuels was reported to be slack, and a 50 cent price spread in group 3 on No. 6 fuel oil narrowed to a 30 cent spread, as one producer withdrew his $2.50 per barrel posting. Some shading in this area of a $2 per barrel price was hinted on number 6 oil. However, it was felt that if group 3 prices dropped much below $2, there would be trading of this oil through shipments to the Gulf coast where much higher prices prevail.

Miscellaneous

Crude Oil—Imported last week from Cartagena and Port La Cruz were some 231,602 barrels of crude oil. According to the Bureau of Mines, July runs of crude oil to stills of 5,221,000 barrels daily was a daily average increase of 101,000 barrels over June. Daily average imports of foreign crudes were reported to be 235,000 barrels which was a drop of 19,000 barrels below the daily average for June, but 10,000 barrels over the daily import average of one year ago. Stocks of crude at refineries at the end of July were 58,483,000 barrels, a drop of 2,254,000 barrels from June. This inventory, however, was some 4,951,000 barrels higher than at the same period last year.

Daily average deliveries to refineries of domestic crude oil in July, as reported by the Bureau of Mines, showed increases of 33,000 barrels in California; 20,000 in Illinois; and 32,000 in Texas. Decreases were in Kansas with 19,000 barrels; Louisiana 9,000; New Mexico 15,000; and Oklahoma 8,000 barrels daily. The intrastate pipeline movement was reported to have increased 84,000 barrels daily over June, and the interstate pipeline movement decreased during the same period by 11,000 barrels daily. The interstate boat movement was reported to show a decrease of 26,000 barrels daily from the June figure.

A large oil company producing petroleum products has offered additional stock on the market for the purpose of expanding operations. Such expanded operations will involve exploration, development and purchase of producing properties, expanded market facilities, and new and expanded refineries.

Gasoline—Along the Atlantic coast the price structure remained varied, as more suppliers rolled back prices to former levels. Not all companies fell in line with this policy of meeting competition.

The daily average production of natural gasoline and allied products increased in July, according to the Bureau of Mines. The July average amounted to 14,861,000 gallons compared with 14,637,000 gallons during June. Increases occurred in all districts except Pennsylvania, West Virginia, Kentucky, Kansas and East Texas. Stocks at refineries decreased some 7,434,000 gallons, at plants and terminals 271,000 gallons, making a total reduction of 7,705,000 during the month. The total of 221,287,000 gallons was 86,728,000 gallons less than was reported for July 1946.

Petrolatums and Waxes

Technical white oils continued in very strong demand last week. U.S.P. white oils were reported to be somewhat more available and roughly in balance with demand. Petrolatums, on the other hand, were in low demand as compared with supply. It was estimated that approximately 70 percent of the petrolatum business in normal times was export business. Due to the lack of dollars for purchasing, export petrolatum business has dropped sharply, leaving a supply that is greater than the domestic market can consume.

Demand for waxes continued strong and there was everywhere a shortage. On the West Coast, high melting point A.M.P. 143/150 wax was being offered at a carload price of 8.95 cent per pound, while the 160/165 grade was listed at 13½ cents per pound.

Market Trends

Prices Advanced

None

Prices Reduced

None

(For Current Prices see Page 9)

Crude Oil Stocks

Stocks of domestic and foreign crude petroleum at the close of the week ended September 2 totaled 226,736,000 barrels, according to the Bureal of Mines. Compared with the total of 226,509,000 barrels for the preceding week, this represented an increase of 238,000 barrels in stocks of domestic crude and a decrease of 11,000 barrels in stocks of foreign crude. Heavy crude oil stocks in California, not included in the gasoline-bearing stocks, totaled 5,267,000 barrels, an increase of 81,000 barrels from the previous week.

Trade Briefs

Petroleum Development (Palestine), Ltd., an affiliate of Iraq Petroleum Company, has begun drilling ten miles north of Gaza, in the south Palestine desert, in an effort to strike oil in that country.

California Oil Company has received the last of three tankers purchased from the Maritime Commission. The ship will carry crude oil between Las Piedras, Venezuela, and the Eastern seaboard.

Standard Oil Company of Ohio, Cleveland, has acquired an 80 percent interest in Aylward Production Company of Kansas, leaseholder of oil-producing properties, in exchange for 52,800 shares of Sohio stock.

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For Late Market Developments, See Page 4

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Protective Coatings Materials

The price trend of protective coatings materials moved up again last week, as an expected series of increases, notably in dry colors, was effected by major producers.

A general 10c. to 20c. per pound price advance was included in tungstic violet toner quotations during the week. Red alizarin lake was up 15c. per pound throughout the market, while lithol toner producers posted 5c. to 7c. per pound advances. Regular para toner was boosted 5c. to 8c. per pound, while chlorinated para toner was raised 10c. per pound. Toluidin toner received a 5c. per pound price boost, and zinc yellow was up 1c. per pound over previous listings.

At the same time, individual prime pigments suppliers inaugurated other price increases for certain products. One supplier put a previously-announced 2c. per pound advance for specialty grades of carbon black into effect. On October 1, a leading manufacturer of brilliant green, emerald green and victoria dark green upped listings 20c., 25c. and 20c. per pound, respectively. A maker of marine green, at the same time, boosted his product 10c. per pound. Advances of 5c. per pound were also listed by a color producer for orthonitroanilin orange toner, fire red toner and 100-percent-basis pulp lake C toner. Deep turkey red was also upped 3c. per pound. A leading supplier of lead pigments, meanwhile, effected increases of ¼c. and 1/10c. per pound on less carlot and smaller quantities of basic carbonate white lead and 95 percent red lead, respectively. The same producer also upped his quotation on litharge 1/10c. per pound.

Further price developments were expected in dry colors, particularly in hansa yellow, chrome yellow and chrome green, late last week. As to the market, iron blues, chrome colors and zinc yellow generally were said to be in good supply. On the short side were tungstic grades of peacock blue, victoria blue toner and violet toner, blue phthalocyanine, red alizarin lake, lithol toners and toluidin toner.

In fillers and extenders, leading suppliers of blanc fixe upped prices $5 to $7.50 per ton and $7.50 to $13 per ton on the dry, by-product and direct process materials, respectively.

Synthetic resins producers showed only minor variations in price schedules last week, although it was believed that some advances would develop this month in view of the 3c. per pound general price increase for phthalic anhydride. Film scrap dealers reported good demand in a spotty market during the week, and it was said that increased inquiries have developed from abroad.

Other price activity during the week centered about shellac and naval stores. Quotations on lemon No. 1, lemon No. 2, superfine and TN grades of shellac were listed at 2c. per pound above previous prices. Producers of pinetar oil and retort pinetar, meanwhile, reduced prices ½c. per gallon.

Although stearate manufacturers held to previous listings last week following their recent 4c. per pound increase, it was believed that other adjustments would be necessary if stearic acid levelled off at current quotations. The price of stearic acid has risen 9½c. per pound within the past three weeks, and the tallow market, which continued strong, showed no signs of breaking during the week.

Market Trends

Prices Advanced

Asphalt, gilsonite, selects, $2 per ton.
Blanc fixe, dry, by-product, $5 to $7.50 per ton.
direct process, $7.50 to $13 per ton.
Blue, violet toner, tungstic, 10c. to 20c. per lb.
Red, alizarin lake, 15c. per lb.
lithol toner, 5c. to 7c. per lb.
para toner, 5c. to 8c. per lb.
chlorinated, 10c. per lb.
toluidin toner, 5c. per lb.
Shellac, lemon No. 1, 2c. per lb.
lemon No. 2, 2c. per lb.
superfine, 2c. per lb.
TN, 2c. per lb.
Yellow, zinc, 1c. per lb.

Prices Reduced

Oil, pinetar, ½c. per gal.
Pinetar, retort, ½c. per gal.

Comparative Price Indexes

(100=August 1, 1914)

Last week.	Prev. week.	Last month.	Last year.
181.0	181.0	180.7	154.5

(For Current Prices see Page 9)

Blue, Peacock—Prices on these pigments were unchanged last week, as supplies of the tungstic grade continued limited and stocks of the molybdic material were still said to be reasonably good. Demand was on a par with previous weeks.

Blue, Phthalocyanine—With phthalic anhydride continuing tight last week and no hope of an early easement of the situation, this pigment was still restricted to narrow stocks during the week. Demand was still said to be very active and quotations on the product showed no fluctuation from previous weeks.

Blue, Ultramarine—Quotations on this material were steady during the week at 24c. to 28c. per pound for the cobalt type, 13c. to 14c. per pound for the jobbing type and 18c. to 28c. per pound for regular grades.

Blue, Victoria Toner—Although other dry colors moved up in price during the week, this material was firm at $3.75 per pound. Supply-wise, the molybdic grade was reported to be more readily available than the tungstic material. Demand was unchanged.

Blue, Violet Toner—Price advances of from 10c. to 20c. per pound were effected by major producers for the tungstic grade of this material. Current prices of the tungstic product range from $2.60 to $2.70 per pound in kegs, delivered. Quotations on the molybdic grade were unchanged at $1.24 per pound. As to the supply picture, short stocks prevailed for the tungstic material, while the molybdic grade was said to be fairly free.

Green, Brilliant—Effective October 1, one major producer of this material applied a 20c. per pound price increase. According to the current schedule, the new quotation is $3.65 per pound, as compared with $3.45 previously.

Green, Chrome—Despite price advances for other pigments last week, this section of the market remained firm during the period under review. Supply and demand factors were said to be on a par with previous levels, the former easing slightly from a generally tight position and the latter active.

Green, Emerald—A leading producer of this pigment advanced the price of this material 25c. per pound last week. The current market quotation of the product is $4.25 to $4.50 per pound. Supply and demand were unchanged during the week.

Green, Marine—As of October 1, the price schedule of one major producer listed the tungstic grade of this material at $3.50 per pound, a 10c. per pound advance over the previous quotation.

Green, Victoria—The dark grade of this pigment was raised 20c. per pound last week by a major producer of the material. The new quotation is $3.10 per pound, as against a previous listing of $2.90.

Iron Oxide—The market position of these materials was unchanged during the week, as stocks of both Spanish and Persian Gulf oxides continued very limited. Demand was reported to be active and prices held at former levels. Imported last week from Malaga were 4,732 bags and 87 barrels of the material.

Lead Pigments—A leading supplier of these materials on October 1 effected increases of ¼c. and 1/10c. per pound on less-carlot and smaller quantities of basic carbonate white lead and 95 percent red lead, respectively. Current quotations on the white lead call for 15¾c. to 16c. per pound, carloads, and 16c. to 16½c. per pound, less carloads. Ninety-five percent red lead is quoted at 17.6c. per pound, carlots, 18c. per pound, five-ton quantities and 18.5c. to 18.6c. per pound for smaller quantities. Prices on 97 and 98 percent red lead and basic sul-

For Late Market Developments, See Page 4

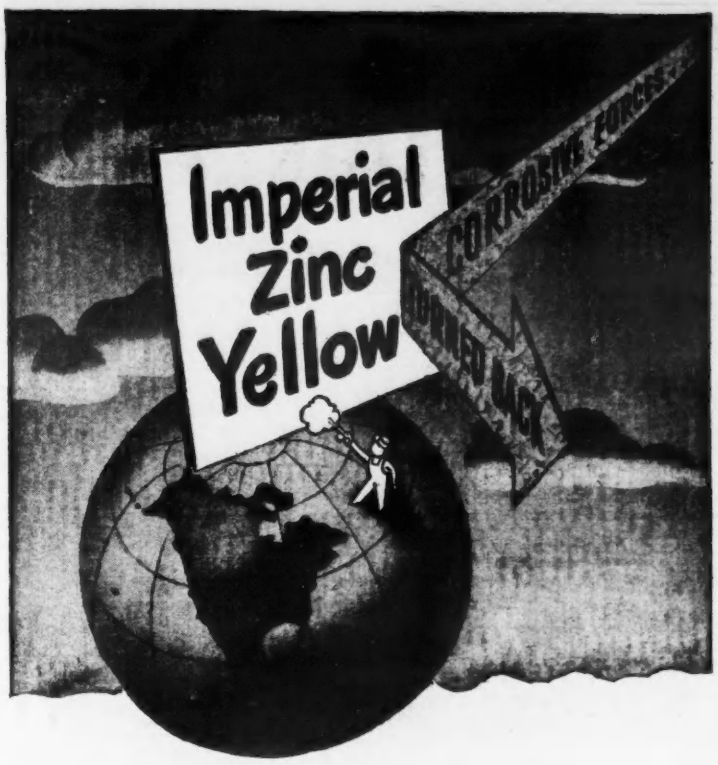
Prime Pigments

Black, Acetylene—Quotations on this pigment during the week were firm at 12½c. per pound, for carload quantities, and 16c. to 18c. per pound, less carlots. Supply and demand factors remained normal.

Black, Carbon—A 2c. per pound advance for specialty grades was effected by a major producer on October 1. The new price rise refers only to paint, lacquer, varnish and plastic grades. At the same time, an increase of 2c. per pound was also effected on ink and paper blacks.

Blue, Alkali—The price structure of this pigment remained firm last week, as producers reported the material in good supply, sufficient to keep abreast of demand.

Blue, Iron—Despite other dry color changes during the week, quotations on Chinese, Milori and Prussian blues held steady at previous levels. These materials were said to be in good supply and demand was unchanged.



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phate white lead were unchanged. Meanwhile, the supply situation, which has been on the short side for some time, was reported to be tightening up somewhat with the bulk of lead stocks going into battery production.

Litharge—A major producer of this material last week upped the price of this pigment 1/10c. per pound for small lots. The current market quotation is as follows:—16.6c. per pound, carload quantities; 17c. per pound, five-ton lots; 17.5c. to 17.6c. per pound, smaller lots.

Orange, Chrome—Despite price movements for dry colors elsewhere in the market, this pigment was firm last week at previous listings. A good supply picture continued to prevail for the material as supply was said to be keeping well abreast of demand. Producers were confident of being able to maintain the current balanced market condition and anticipated no slack in output.

Orange, Molybdate—A good supply situation prevailed in this section of the market last week, as supply and demand were just about in balance. No changes in price were noted during the week.

Orange Toners—A leading producer of this pigment last week applied a previously-announced 5c. per pound increase on the orthonitroanilin toner. Current quotations on the market range from 90c. to 95c. per pound. The dinitroanilin toner held at its previous price. Supply was reported good and demand was said to be normal.

Red, Alizarin—Major producers of this paint material boosted prices 15c. per pound, as stocks continued narrow owing to the persisting shortage of anthracene. Current market prices quote the product at $2.25 per pound. Demand was fairly heavy.

Red, Fire Toner—A 5c. per pound increase was affected by a major supplier of this material last week, as an upward movement developed in certain dry colors. The pigment is being quoted at $1 per pound, compared with the previous price of 95c. per pound.

Red, Lake C Toner—An 8c. per pound increase on the 100-percent-basis pulp color was quoted by a leading maker of this pigment last week, as other suppliers held prices for their products at previous levels. The pulp color is currently priced at 90c. per pound, compared to the previous listing of 82c.

Red, Lithol Toners—Major producers of this pigment boosted the price 5c. to 7c. per pound last week, as the material continued in limited supply. Current market quotations list the product at 75c. to 77c. per pound in barrels, f.o.b. works. Litholrubin toner, which for all practical purposes has been off the market owing to the scarcity of rubin intermediate, held to its previous price of $1.30 per pound.

Red, Para Toners—A 5c. to 8c. per pound price increase was effected for the regular grade by leading producers last week. The current price ranges from 85c. to 88c. per pound, as against a previous listing of 80c. per pound. At the same time, the price of the chlorinated grade was also upped 10c. per pound. The current listing for this material is 95c. to $1.05 per pound.

Red, Toluidin Toner—Current quotations of this pigment include a new 5c. per pound increase, with the product listing at $1.30 per pound, as against $1.25 previously. The new price advance came last week while stocks of the material were still said to be rather limited.

Red, Turkey Deep—A 3c. per pound price advance was effected on October 1 by a leading producer of this lake. The material is currently quoted at 45c. per pound, compared with the previous quotation of 42c. per pound.

Yellow, Chrome—A good supply picture was reported for this pigment last week as prices held firm at listings of previous weeks. Enough of the material was reported available to allow producers to accept additional export business.

Yellow, Hansa—Despite movements elsewhere in dry colors, quotations on this material were firm during the week. It was reported, however, that there might be an upward adjustment of price schedules on this pigment shortly, but suppliers were unable to say last week just how much the increase would be and when it would be effected. Meanwhile, supply and demand were approximately in balance.

Yellow, Zinc—Major producers of this material last week upped the price of this pigment 1c. per pound, as the supply situation continued good. The current market quotation is 20c. per pound, as against a previous price of 19c.

Fillers and Extenders

Blanc Fixe—Leading suppliers of the dry, by-product material last week effected increases of $5 to $7.50 per ton on all quantities. The new quotations in bags list the material at $72.50 per ton, in carload quantities, and $80 per ton, less carlots, both prices being f.o.b. works. At the same time, advances of $7.50 to $13 per ton were put into effect on the direct process grade. Market prices for this material follow:—$85 per ton, carloads, bags, f.o.b works; $90 per ton, l.c.l., bags, f.o.b. works, and $108 per ton, bags, New York warehouse. The product in barrels is quoted at $5 per ton higher than the carlot price.

Chalk—Imported last week were 100 tons of witherite from Newcastle-on-Tyne. At the same time, this section of the market was steady at previous levels.

China Clay—There was no fluctuation in the market condition of this material last week, as supply remained ample, demand normal and prices were firm.

Diatomaceous Earth—Recent imports of this material were registered at 972 bags from Vera Cruz. As for the market situation during the week, no appreciable change was noted. Special filtering grades of the domestic product were still said to be scarce, although other domestic types were reported in good supply. On the imported side, the Algerian and Mexican materials were still very short, the former considerably tighter than the latter. Prices were steady.

Fuller's Earth—A good supply situation continued to prevail for this material last week, as petroleum refiners still were reported to be taking the lion's share of the output. Price quotations were unchanged.

Gypsum—Imported last week were 10,442 tons of gypsum from Hautsport and 506 bags of the material from Hull. The market was stable during the week, with all factors retaining previous levels.

Pyrophyllite—The standard, 200 mesh grade last week was quoted at $11 to $11.50 per ton, carloads, in bulk, f.o.b mines. The insecticide, 200 mesh product was listed at $9.00 to $10.00 per ton, carlots, in bulk, f.o.b. mines.

Whiting—Imports last week were registered at 2,190 bags from Rotterdam and Hull. Market-wise, no changes were reported.

Synthetic Resins

Acrylic Resins—The market position of these materials was stable during the past four-week period, as demand continued strong, particularly from the automobile industry, and prices remained firm. Reasonable stocks of these resins were reported.

Alkyd Resins—Although producers of these materials last week stood firm at old listings, there were indications in related markets that the long-awaited upward adjustment of price schedules might be forthcoming shortly. On October 1, spot prices for all producers of phthalic anhydride stood at 17½c per pound, in carlot quantities, f.o.b. works, as several major suppliers fell into line behind previously-announced 3c. per pound price advances of competitors. The new price boosts do not become effective on a contract basis until November 1, but it was expected during the week that alkyd resin producers would have to make similar price changes in view of their imminent rising costs .

Ester Gums—The market condition of these materials was substantially unchanged during the past four-week period, as prices remained firm and the supply-and-demand situation on all true ester gums was more or less in balance. Pentaerythritol esters, which in reality are synthetic resins of a special type, were also unchanged, as production kept well abreast of demand and prices held steady.

Film Scrap—Producers of this material reported last week that demand was generally good in a rather spotty market. Supply was said to be ample. Several suppliers reported numerous inquiries from abroad, but indicated that export transactions were difficult owing to fiscal problems. China, for example, requires a great deal of film scrap, according to suppliers, but because of the unstable condition of the currency in that country, it has been almost impossible to transact any negotiations. European countries face the same problems, but conditions there were said to be not quite as severe. Prices, meanwhile, were firm during the week at 14½c. per pound for the colored grade and 15½c. per pound for the water-white product.

Hydrocarbon Resins—A major producer of these resins last week announced price increases on certain grades of his product ranging from 3/100c. to 1c. per pound. The market was otherwise unchanged as supply and demand held at former levels.

Phenolic Resins—A minor price decrease was effected during the week by a leading supplier of these resins, as one grade of phenolics was lowered 1¾c. per pound. Supply-wise, the situation was said to be generally good, although cresylic and alkyl-substituted types continued on the short side.

Natural Resins

Although the market was generally unchanged last week, increased buyer interest was reported by some suppliers of these materials. Conditions abroad, however,

were still too unstable during the week to give any accurate picture of the price situation. Imports last week totaled 70 bags of copal gum from Singapore and 350 bags of dammar gum from the same port of call.

Miscellaneous Materials

Asbestos—The long-fibered grade was still said to be very scarce last week, as demand maintained its previously active pace. Prices were firm and it was believed that they would hold steady, at least, through to the end of the year. Imported last week were 12,496 bags of asbestos from Leningrad, but this shipment was expected to have little effect on the overall condition of the market.

Asphalt—Major producers of this material last week upped prices of gilsonite $2 per ton. The current quotations are $36.50 per ton for gilsonite selects, f.o.b. Colorado mines, $29 per ton for standard gilsonite, same basis, and $45 per ton for pulverized gilsonite selects, f.o.b. mines. Imported during the week were 240 bags of mineral asphalt from Havana.

Bones—Imports during the week totaled 3,899 bags of bones from Buenos Aires and Bangkok.

Casein—This section of the market had a firm tone during the week, with prices holding to previous quotations. Imports last week amounted to 2,833 bags from Santos and Buenos Aires.

Glue—Imports during the week amounted to 200 cases of hide glue from Bangkok. Market-wise, there was no change last week.

Graphite—Imports during the week totaled 2,455 bags of graphite from Tamatave. As to the market, conditions were unchanged.

Shellac—Prices on lemon No. 1, lemon No. 2, superfine and TN grades last week were quoted at 2c. per pound above previous listings. Current quotations in bags follow:—lemon No. 1, 63c. per pound; lemon No. 2, 61c. per pound; superfine, ten-pound lots, 56c., and TN, ten-pound lots, 54c. per pound. Reports here during the week indicated that the Calcutta market has settled considerably, although it was said that civil disturbances have created considerable transportation difficulties in India, preventing regular deliveries of shellac from upcountry. Imports of shellac last week totaled 15 bags and 2,244 cases from Kohsichang. Buttonlac shipments from Kohsichang and Calcutta amounted to 126 cases and 120 bags. One hundred bags of sticklac were also imported from Kohsichang last week, and 300 bags of seedlac arrived from Calcutta.

Stearates — Although stearic acid has risen 9½c. per pound within the past three weeks, stearate producers kept to previous price listings last week. This decision to hold the price line for the time being, following the recent stearate price boost of 4c. per pound was generally believed to have two explanations. First, stearate suppliers apparently were waiting for the stearic acid market to settle so that they could determine a more stable price schedule for their products. Then, too, it was pointed out that when stearic acid dropped a month or so ago, stearates did not quite match that decline penny for penny. Meanwhile, some producers reported buyer resistance at the higher price level from rope, wire and other non-paint manufacturers.

Naval Stores

Oil, Pinetar—Leading suppliers of this material effected ½c. per gallon price decreases for all quantities. Current quotations follow:—39c. per gallon, carlots, f.o.b. South; 40½c. to 41c. per gallon, l.c.l., f.o.b. South, and 30c. per gallon, tanks.

Pinetar, Retort—A price cut of ½c. per gallon was put into effect by major producers of this material last week. The current market prices are 39c. per gallon, carloads, f.o.b. South, 40½c. to 41c. per gallon, less carlots, 50¼c. per gallon, New York warehouse, and 30c. per gallon, tanks.

Savannah, Oct. 3.—Following is a record of the turpentine market for the week:—

	Bulk, gallons— Cents.	Sales.	Barrels— Receipts.	Shipments.	On hand.
Monday	62⅝	80	269	...	10,845
Tuesday	63¼	240	429	184	11,090
Wednesday	62⅝	120	246	277	11,059
Thursday	62⅝	160	26	180	10,905
Friday	63	160	22	563	10,364

Savannah, Oct. 3.—Following is a record of the rosin market for the week:—

	Price per unit— Low of range quoted Mon.	Tues.	Wed.	Thurs.	Fri.
B	$6.50	$6.50	$6.50	$6.50	$6.50
D	6.50	6.50	6.50	6.50	6.50
E	6.75	6.75	6.75	6.75	6.75
F	6.75	6.75	8.05	8.05	8.05
G	7.40	7.40	8.05	8.05	8.05
H	7.40	7.40	8.05	8.05	8.05
I	7.40	7.40	8.05	8.05	8.05
K	7.51	7.90	8.05	8.05	8.05
M	7.53	7.90	8.05	8.05	8.05
N	7.54	7.90	8.05	8.05	8.05
WG	7.85	8.00	8.05	8.05	8.05
WW	7.90	8.10	8.36	8.36	8.62
X	7.90	8.10	8.36	8.36	8.62
	Barrels				
Sales	100	124	111	...	100
Receipts	583	1,567	291	218	192
Shipments	686	1,778	...	...	...
Stocks	8,549	8,338	8,629	8,847	9,039

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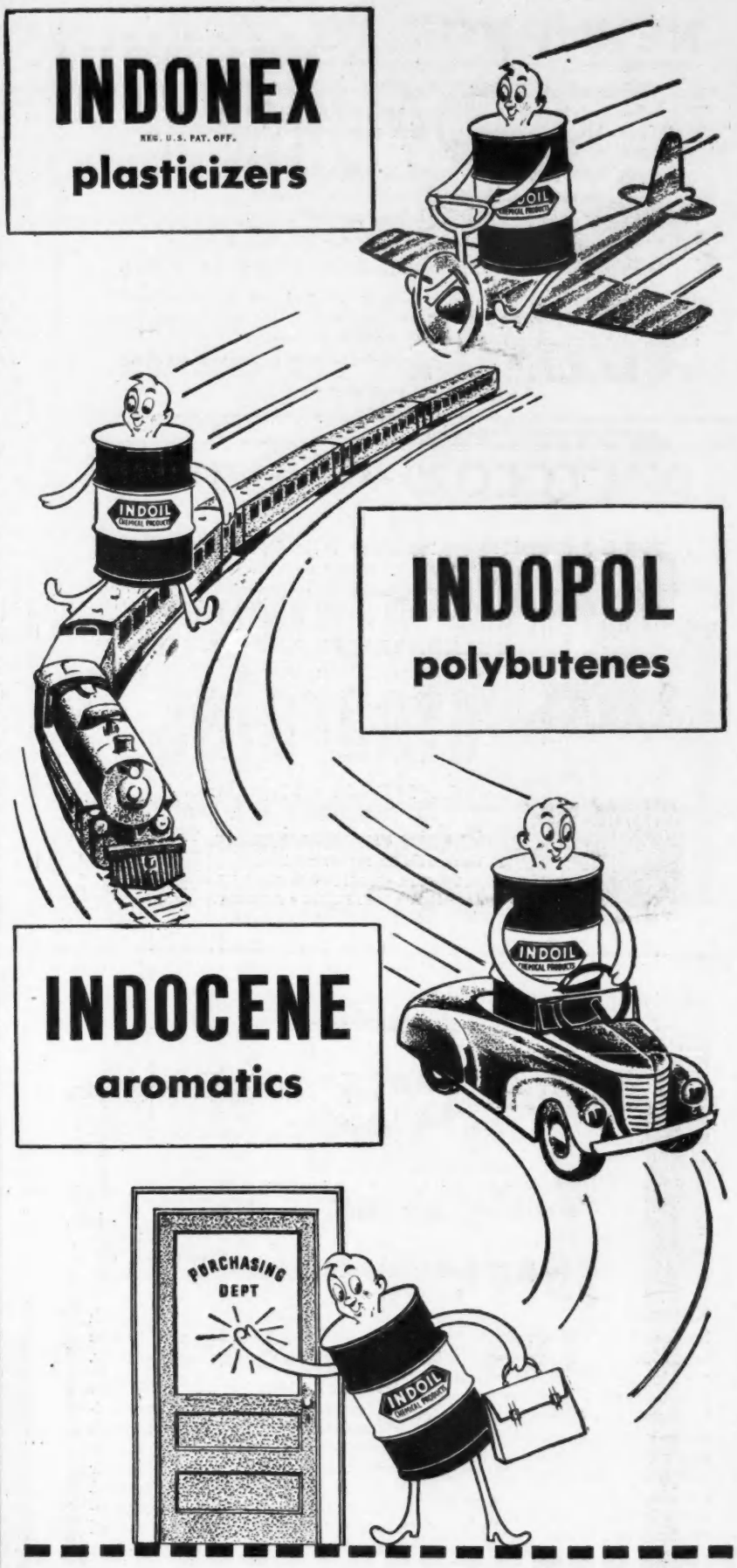

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DUREZ RESIN NEWS

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ALKYD RESIN ENAMELS. Because of the low acid number of Durez 220V Resin and the almost completely reacted condition of the components, it is preferable to cook Durez 220V Resin into a varnish and then blend with the alkyd. This procedure is quite different from that recommended for Durez 219 and 209. A Durez 220V Resin varnish blended with the alkyd will increase gloss, water resistance, and brushability.

MARINE FINISHES. Varnishes made from Durez 220V Resin make excellent vehicles for cabin colors. Their resistance to moisture, combined with good gloss and color stability, is outstanding. For marine engine enamels we recommend the inclusion of 10-15% of a pure phenolic resin to increase gasoline and oil resistance.

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PHYSICAL PROPERTIES OF DUREZ 220V RESIN

Melting Point	282° to 288° F. (Capillary Method)
Acid Number	20 to 24
Color	WW to WG
Refractive Index	1.5968
Specific Gravity	1.102
Weight per gallon	9.18 lb.

DUREZ . . . RESINS THAT FIT THE JOB

N.E. Paint Club Annual Meeting on October 9

The sixty-third annual meeting of the New England, Paint, Varnish and Lacquer Association will be held in the Statler hotel, Boston, on October 9. Refreshments will be served at 5:30 p.m. and will be followed by dinner an hour later. Guest speaker will be Kenneth B. Backman, general manager of the Boston Better Business Bureau.

Huber Publishes Booklet On New Bloom Inhibitor

The J. M. Huber Corporation, New York, has published a technical bulletin describing "Natac," its new bloom inhibitor for natural rubber and mixtures of natural rubber and "GR-3" compounds. Copies are available on request from the company at 342 Madison avenue, New York 17.

NPVLA Probes Revival Of Sales Promotion Parleys

The National Paint, Varnish and Lacquer Association has scheduled a dinner meeting at the Ambassador hotel, Atlantic City, N. J., on November 12 for the purpose of determining whether it is desired to revive the Annual Conference of Sales Promotion and Advertising Managers and if so to decide on a date for a first conference in the Spring of 1948 and discuss a possible program. The meeting will be held during the association's annual convention.

CDIC Paint Club Meets October 13

Alvin C. Goetz, manager of the technical service department of the pigment division of Eagle-Picher Company, will be the guest speaker at a meeting of the Cincinnati-Dayton-Indianapolis-Columbus Paint and Varnish Production Club, to be held at the Cincinnati club on October 13.

Glidden Stockholders Vote Stock Increase

Stockholders of the Glidden Company, paint manufacturers, Cleveland, voted October 2 for an increase in the company's authorized common stock from 1,200,000 to 3,000,0000 shares, paving the way for a two-for-one split in outstanding shares, or to 1,794,000 from 892,000. The record date for giving effect of the split was set for October 24.

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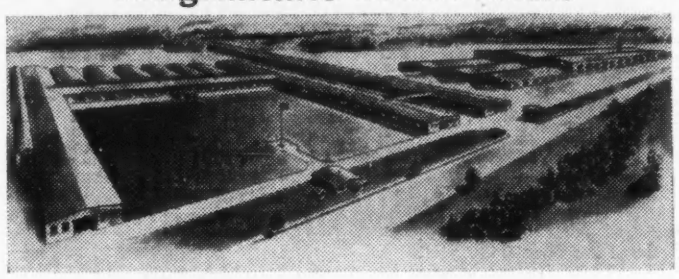

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Printing Ink Industry

—Continued from page 5

ment. What few developments there have been, were necessitated by a lack of raw materials and, although of interest, are now relatively insignificant."

Dr. Voet disclosed that one major reason for the lack of German progress was the system of secrecy pioneered by I. G. Farbenindustrie and followed by other companies in related fields. As a result of this policy, he said, the printing ink chemist was greatly handicapped and could not obtain freely, data that might have helped in his own research.

In summarizing his report, Dr. Voet disclosed that the printing-ink production in the western zones of Germany is now at about 40 percent of its prewar level, only hampered by lack of raw material, not by production facilities. Of this, 90 percent is produced by five plants in the United States and British zones.

GPO Research Program

A. E. Giegengack, Public Printer of the United States, in his talk on the "Future of Printing Technologically" sought to allay fears in the industry that the Government Printing Office may eventually produce all of its printing ink requirements. Although it manufactures a large part of its ink requirements now, he said, it will always have to buy some grades of ink. And the same will be true, he added, with respect to purchase of printing from the commercial customers of the ink makers.

He reported that considerable progress has been made in the research program of the Government Printing Office and the printing industry to provide exact and proven formulas for all printing methods. The first six of a series of research reports already have been completed and are now available from the GPO. Subjects being studied or scheduled for review include the testing of equipment and materials; the standardization of materials, weights and measurements and terms; development of specifications for materials; basic manufacturing methods and techniques in all branches of the industry; management procedure, and selection and training of personnel.

Mr. Giegengack also mentioned briefly experiments being carried on by GPO of a device for composing reading matter photographically. The device is still in its development stages, but some surprisingly good results have been obtained. One of the main advantages of the device will be elimination of all the steps involved in handling lead type and reproduction proofs. He said it offers endless possibilities to the offset printers.

Printing Ink Faults

From the viewpoint of the consumers of printing ink, Dr. E. P. Ryan, chief chemist, Curtis Publishing Company, listed eight faults that can now be found with the products of the ink makers. He stressed above all the need for better quality fast-drying inks and urged the industry to give this problem very close attention. He also noted that there had been very little improvement in the brightness of color over the past twenty years. This is another field that warrants further research, he said, and when improvement is brought about the industry need have no fear of a ready market for its products.

Materials Shortages

Dr. A. C. Zettlemoyer, professor of chemistry at Lehigh University, told how materials shortages have delayed the newly-formed Printing Ink Research Institute in getting started on its program, but, he said, progress has been made, and predicted that great benefits would eventually flow from this organization. He showed the delegates a series of slides of the various equipment that has been obtained by the institute for its research work.

A comparative study by the New York Printing Ink Producers Club of resin and mineral oil varnishes was presented by Nat Rosen, Superior Printing Ink Company. The study related to the viscosity and drying time of various ink formulas and indicated, he said, that a combination of pentarythritol and modified maleic resins makes a very fine varnish that warrants more study.

Industry Outlook Optimistic

Figures indicating quite a bit of optimism in the printing industry on the future of business were given by E. F. Trotter, editor of "Printing Magazine" on the basis of a survey he made of 168 printing firms that have announced expansion plans. In response to his questionnaire, he said, they reported plans for expansion involving over $94,300,000, and only one of them since has decided to cut back because of high construction costs.

From his survey, Mr. Trotter said, it was indicated that the big firms very definitely are expanding while the smaller plants are replacing equipment. In both cases it means more business to the ink producers. The survey also indicated that on the average the printers are looking for a continuance of the heavy volume of printing business of four to four and a half years. However, he added, he is convinced that competition will get sharper in spite of the expected high volume of business.

Merryle S. Rukeyser, financial columnist for the International News Service, addressed the meeting on "What's Ahead for the U. S. A." and deplored the failure of business executives to educate their workers as to the real profits of their firms.

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Lucas & Co. Honors Sixty-one Employees

John Lucas & Co., paint manufacturer, Philadelphia, presented gold watches and certificates to sixty-one employees with service records ranging from twenty-five to sixty years at a recent dinner meeting in the Walt Whitman hotel, Camden, N. J.

Three of the watch recipients, C. S. Burk, of the Philadelphia plant, and William Watson and Harry Souders, of the Gibbsboro, N. J., plant have been associated with the company for more than fifty years. In making the presentation, L. F. Collister, general manager and vice-president of the company, called attention to the fact that the sixty-one men represented a total of more than 2,000 years of service to Lucas.

Reynolds Research Develops New Packaging Film

The Reynolds Research Corporation, Gary, Ind., has announced the development of a new packaging film cast from a colloidal dispersion of polyvinyl chloride plastic in water. Called "Reynolon," it is the first free film to be made from the B. F. Goodrich Chemical Company's "Geon" latex.

The new film is available in guages ranging from one to three mils and in widths of thirty-six to forty-six inches. It is said to have excellent resistance to moisture, vapor transmission and good light and heat stability, and can be sewed or electronically heat sealed.

Glidden Company Advances Two Sales Executives

The Glidden Company, Cleveland, has appointed Charles M. Dunn, jr., head of the technical service department of its Cleveland direct sales division, and has named Louis F. Long, jr., to succeed Mr. Dunn as manager of its aviation department.

Mr. Dunn was connected with the Glidden sales organization prior to the war and was named manager of the aviation department after his release from service. Mr. Long has been serving as assistant manager of the aviation department.

Glyco Assigns Roberts

Glyco Products Company, New York, has named William H. Roberts, jr., general manager of its Natrium, W. Va., plant. Mr. Roberts was formerly manager of penicillin and streptomycin production for E. R. Squibb & Sons and had previously been associated with the Hooker Electrochemical Company and the Calco Chemical Division of American Cyanamid Company.

D.M.Goodrich Honored

David M. Goodrich, chairman of the board of the B. F. Goodrich Company, Akron, Ohio, was guest of honor at a dinner given recently in New York by company directors and officers commemorating his twenty years as board chairman. He is the son of the founder of the company.

Synthetic Resins

—*Continued from page 35*

Vinylite resin, modified vinyl-acetate, MA-28-18, less than drum lots, same basis, gal.	2.65	-	—
Vinyl chloride-acetate, VYLF, VYHH, VYNW, VYNU, VYDR, VYNV, VYNY, VYNL, powdered, c.l. (30,000 lbs.), paper bgs., f.o.b. cars, South Charleston, W. Va. lb.	.33	-	—
10,000 to 29,999 lbs., same basis lb.	.34	-	—
200 to 9,999 lbs., same basis lb.	.35	-	—
1 to 199 lbs., same basis lb.	.51	-	—
VYNS, c.l. (30,000 lbs.), paper bgs., same basis lb.	.44	-	—
10,000 to 29,999 lbs., same basis lb.	.45	-	—
200 to 9,999 lbs., same basis lb.	.46	-	—
1 to 199 lbs., same basis lb.	.62	-	—
VYCM, powd., c.l., (30,000 lbs.), paper bgs., f.o.b. cars South Charleston, W. Va. lb.	.38	-	—
10,000-29,999 lbs., same basis lb.	.39	-	—
200-9,999 lbs., same basis lb.	.40	-	—
1-199 lbs., same basis lb.	.56	-	—
VMCH, c.l. (30,000 lbs.), same basis, lb.	.39	-	—
10,000 to 29,999 lbs., same basis lb.	.40	-	—
200 to 9,999 lbs., same basis lb.	.41	-	—
1 to 199 lbs., same basis lb.	.57	-	—
Acetate resin, AYAB, lumps (in fiber drums at option of seller): AYAA, AYAF, AYAT, granular (in paper bags only), f.o.b. cars South Charleston, W. Va., freight paid to destination E. of Mississippi River, c.l. (30,000 lbs.) lb.	.40	-	—
AYAB, AYAA, AYAF, AYAT, 2,000 to 29,999 lbs., same basis lb.	.43	-	—
200 to 1,999 lbs., same basis lb.	.45	-	—
1 to 199 lbs., same basis lb.	.60	-	—
AYAC, solid, fiber drms., at option of seller, c.l. (30,000 lbs.), f.o.b. cars South Charleston, W. Va. lb.	.43	-	—
2,000-29,999 lbs., same basis lb.	.45	-	—
AYAC, 200-1,999 lbs., same basis lb.	.47	-	—
1-199 lbs., same basis lb.	.62	-	—
Butyral resins, XYSG, XYHM, XYHL, granular, 96 to 97% solids, prices based on contained solids (in paper bags at option of sellers).			
30,000 lbs., f.o.b. cars South Charleston, W. Va., c.l. lb.	.82	-	—
10,000 to 29,999 lbs., same basis lb.	.83	-	—
200 to 9,999 lbs., same basis lb.	.84	-	—
1 to 199 lbs., same basis lb.	1.00	-	—

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Fatty Acid Distillation In Germany Reported

OPD Washington Bureau

The Office of Technical Services, Department of Commerce, has published a British report describing the manufacture of spray dried powders and sodium perborate, and fatty acid distillation at the firm of Henkel & Co., Dusseldorf, Germany.

The Henkel firm purified crude synthetic fatty acids obtained from the oxidation of Fischer-Tropsch residues. The composition of the feed (thirty-five tons a day) was 17 percent acids with a C_4-C_{10} carbon content, 70 percent C_{11}-C_{18}, 5 percent C_{19}-C_{22}, and 8 percent residue, the report states. The feed was split into these fractions by four pot stills operating in series. The process is described in detail in the report.

Orders for the report, PB-65666, "Spray Drying, Fatty Acid Distillation, Sodium Perborate" (photostat $2, microfilm $1, 29 pages) should be addressed to the Office of Technical Services, Department of Commerce, Washington 25, D. C., and should be accompanied by check or money order payable to the Treasurer of the United States.

A.E. Staley Celebrates Twenty-fifth Anniversary

A. E. Staley Manufacturing Company, soybean processor, Decatur, Ill., announced a method of producing a nutrient used in the production of streptomycin in connection with the celebration of its twenty-fifth anniversary. The nutrient, which looks like soy flour, is said to markedly stimulate the growth of the organism which produces streptomycin.

As part of the anniversary celebration, the company was presented with a bronze plaque by the Decatur Association of Commerce honoring it for its quarter-century of soybean processing operations.

Palm Oil Production Urged To Relieve Oils, Fats Shortage

F. Geoffrey Heyworth, chairman of the board of directors of Lever Brothers & Unilever, Ltd., predicted that palm oil will play an important part in the world's fats and oils supply in an interview at Batavia, Java, according to Aneta news agency.

Mr. Heyworth, who is on the survey trip through the Far East, said that Indonesia is especially suited for palm oil production, and before the war yielded 2,250,000 tons annually. He added that this quantity could be quadrupled within ten years and stated that reconstruction of transportation facilities is one of the most important conditions for development of the palm oil industry.

He estimated world fats and oils shortages to be about 4,000,000 tons annually, and pointed out that while peanut production is a significant factor in filling these shortages, even more attention should be given to palm oil because of the lower production costs for the latter.

National Lead Co. Names Merson to Sales Post

The National Lead Company, New York, has appointed D. A. Merson manager of sales in charge of paints, oils and pigments. Mr. Merson, who is a director of the company, will also continue as head of its sales development department.

Cleveland Paint Group Elects Harbert President

The Cleveland Paint, Varnish and Lacquer Association elected A. A. Harbert, of the Cleveland Paint & Color Company, president at its recent annual meeting. Other officers elected included:—Vice-president, A. H. Mattmueller, Continental Products Company; treasurer, Andrew A. Mazeika, Pittsburgh Plate Glass Company, and secretary, Allyn K. Thayer, C. K. Williams & Co.

Trade Briefs

Argentine government has announced that about 4,055,000 acres will be put into linseed this year, or roughly 14 percent less than the 1946 total. It is 34 percent below the average of the last ten years.

Pillsbury Mills, Inc., manufacturer of cereal products, Minneapolis, Minn., has appointed George W. Porter as its patent and trademark attorney, effective October 1.

Oil Exploration Company, Wichita River Oil Corporation and Aro Oil & Gas Corporation have jointly acquired oil and gas leases on approximately 20,000 acres of land located principally in northeastern Shackelford County, Texas.

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	SPECIFICATIONS Max.	Min.	Typical Analysis
Specific Gravity at 15.5/15.5°C	0.875	0.860	.861
Refractive Index at 20°C	1.478	1.465	1.466
Unpolymerized Residue (38N-H$_2$SO$_4$)	2.0%		0.8%
Distillation:			
Initial Boiling Point	160°C	150°C	154°C
Distilling below 170°C		90%	95%

Properties

Flash Point: Approximately 98°F (Tag open cup).
Optical Rotation: Above +25°.
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(Aniline Point): Approximately 18°C.
(Mixed Aniline Point): Approximately 44°C.

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Containers:
Tank Cars: 8000 and 6000 gallons.
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Drums: 56-gallon galvanized drums, net weight, 392 lbs. (Gross weight approximately 450 lbs.).
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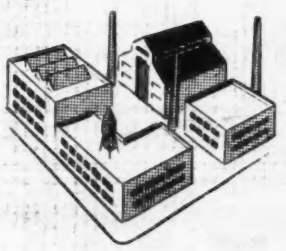

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Oils, Fats and Waxes

Upward trend in fats and oils was unabated last week as prices were moved into higher ground. Demand was active for prompt delivery and owing to the scarcity of material it was transferred to the nearby and forward positions. The widest advance was scored in soybean oil which was sold at an increase of 3 cents as a result of the boost in soybeans. Coconut oil was offered sparingly and was stronger with the higher cost of copra and good demand for prompt and nearby deliveries. Copra was easier late in the week, but registered net gains for the period. Crude corn oil continued scarce and firmer and sold at an increase of 1 cent per pound. New crop peanut oil was unavailable and occasional tankcars of old crop were sold fractionally higher. Active request for crude cottonseed oil absorbed all offerings and the market was boosted 2 cents per pound. It was reported that 25 percent of the production in the Southeast has been sold by crushers. Linseed oil was lifted 1c. per pound, following the advance in flaxseed. Refined fish oils were boosted again with the higher cost of crude oil. Tallow and grease were firmer, and in good demand, though producers were not offering, except small lots at premiums of 1 to 2 cents per pound. Soapmakers were bidding at the official price, without success. Recent trading absorbed the production of tallow for prompt and nearby delivery, it was reported. Vegetable oils fatty acids, except red oil and stearic acid were higher with the higher cost of the basic oils. Animal oils were raised another cent per pound. Soap prices were lifted 10 percent and margarin 3 percent.

A sliding scale of margin requirements on cottonseed and soybean oils contracts traded on the New York Produce Exchange were placed put into effect October 2 by the New York Produce Exchange Clearing Association. Margins on contracts of both commodities will be $1,200 when the price is 24.99c. per pound or less, increasing to $1,800 when the price ranges from 25c. to 27.99c. and to $2,400 when the market is 28c. to 30.99c. The adoption of this rule had the effect of raising cottonseed oil margins $600 to $1,800 on October 2.

Cottonseed Oil

Higher markets for crude cottonseed oil, lard and grains were reflected in bleachable oil futures last week and prices registered sharp gains for the period. Trading was active and was centered in March and May deliveries. Trading in crude cottonseed oil was active last week with the bulk of the business transacted at 23c. per pound, tankcars, f.o.b. mills, with sales also at 24c., same basis. It was estimated that 25 percent of the production in the Southeast has been sold by crushers. Cottonseed was higher with sales reported at $100 and $110 per ton at gin points.

Memphis.—Crude cottonseed oil was sold at 24c. per pound, tankcars, Valley, and scattered sales of crude soybean oil were reported at 23c., same basis. Cottonseed meal, 41 percent, quoted at $93.50 per ton, Memphis, for October shipment, $91 November and in good demand. Hulls were quoted at $15.50 per ton, bulk, mills. Cottonseed held at $100 gin points.

Prices of refined bleachable prime summer yellow cottonseed oil in tankcars on the N. Y. Produce Exchange for the week ended October 3, follow:—

	Sales	Cents per pound—High	Low	Close
October	8	26	25½	24⅝@25½
December	48	25.80	24	24.30@24.80
January	12	25.55	24.20	24.40@24.90
March	118	26.01	24½	24.60@24.85
May	84	25⅝	24.20	24.00@24.95
July	7	26	24.70	24.65@24.90
September	2	24.90	24¼	24.10@25.00

Total sales—279 tankcars.

Crude cottonseed oil was reported sold at 24c. per pound, tankcars, f.o.b. mills, Southeast and Valley, and sold at 23c., same basis, at the close.

Linseed Oil

Market was firmer with the advance in flaxeed and quotations of raw oil were raised 1c. per pound. Tankcars were increased to 30.1c. per pound, for October-November delivery, 29.9c. for December and 29.4c. January forward. Consuming inquiry continued limited and light trading was reported for December forward delivery before the advance became effective. Withdrawals against contracts were in good request.

Argentine government estimated the area planted to flaxseed at 4,056,000 acres this year which was about 14 percent less than last season, and approximately 34 percent smaller than the 10-year average.

Linseed oil production was placed at 26,527,000 pounds in August, compared with 32,250,000 pounds in July by the Bureau of Census. Consumption was indicated at 39,834,000 pounds in August and 40,030,000 pounds, the previous month. Stocks in warehouse totaled 132,682,000 pounds August 31, against 157,724,000 pounds, July 31.

Minneapolis.—Oil prices quoted firmer at 29.7c. for October-November shipment, 29.5c. for December and 29c. for January-June. Crushers report little or no large volume business and indicate that most oil buyers are staying close to shore—buying daily need on a hand to mouth basis. Mill production was at peak levels with crushers rushing supplies to consumers. Shipping orders were in excellent volume and most of the mills were well supplied with running time.

Shipments of linseed oil, in pounds, were as follows:—

	1947-48	1946-47
This week	6,750,000	7,380,000
Since Sept. 1	20,980,000	20,940,000

Flaxseed—Seed market was advanced 15c. per bushel and resulted in a markup of 1c. per pound for linseed oil. Demand for seed was brisk and not offered freely.

Minneapolis.—Another burst of demand, led by a large crusher, rallied cash flaxseed prices to the highest level of the new crop year as bids wents out at $6.65 a bushel. The 15c. advance came as a surprise to the trade. Demand for flaxseed was quite brisk in certain quarters and while some of the crushers' buyers were not pressing for offerings at the new high mark there was no one turning seed offerings down. Receipts continued at a high level with country shipping advices continuing to hold up well. Many shippers, however, were dumping their seed into local storage facilities and planning on selling after the turn of the year. Country elevators have been generally unplugged and the truck movement of flax has virtually disappeared as railroad cars in better supply and crushers are able to get what they want via normal channels. The bulk of the daily receipts of flaxseed are applied against maturing contracts and only a few cars are available in the free market.

Shipments of flaxseed in bushels were as follows:—

Bushels—	Receipts— 1947-48	1946-47	Shipments— 1947-48	1946-47
This week	1,229,100	487,900	188,400	292,900
Since Sept. 1	9,280,900	3,792,700	1,338,000	938,100

Other Vegetable Oils

Castor, Dehydrated—This market was unchanged and steady at current quotations. Trading was fair and mainly for small lots for immediate needs.

Coconut—Active inquiry and light offerings for prompt and nearby positions, advanced quotations about ½c. per pound. Crude oil was strong and nominal at 19c. to 20c. per pound, tankcars, f.o.b. Pacific coast October-November shipment. Trading was fairly active at 16c. tankcars, for January-March, same basis. Copra market was irregular and shipments declined to $201.50 per short ton, c.i.f. Pacific coast, a net gain of $11.50 for the week. Sales of large lots reported at $205, same basis, earlier in the period. Netherlands East Indies government has announced that it had purchased 10,000 tons of rice stored in Manila recently for stimulation of copra production in East Indonesia. The rice will be distributed throughout East Indonesia as an inducement to increase copra production by the plantation workers, whose main food is rice, it was reported by Aneta.

Corn—Scarcity of offers continued to restrict trading. Crude oil was sold at 24c. per pound, tankcars, f.o.b. mills, October-December. Additional bids at this price were turned down with sellers naming 24½c.

Oiticica—Demand was moderate and mainly for small drum lots for spot delivery. Arrivals totaled 900 drums at New York last week.

Olive—Arrivals of 1,312 drums of Moroc-

For Late Market Developments, See Page 4

Market Trends

Prices Advanced

Coconut oil, ½c. per lb.
Copra, $11.50 per ton.
Corn oil, crude, 1c. per lb.
fatty acid, 1c. per lb.
Cottonseed oil, crude, 2c. per lb.
fatty acid, 1c. per lb.
Grease oil, 1c. per lb.
Linseed oil, 1c. per lb.
Menhaden oil, crude, 1c. per lb.
refined, 1c. per lb.
Ouricury wax, 4c. per lb.
Peanut oil, crude, ½c. per lb.
fatty acid, 1c. per lb.
Soybean oil, crude, 3c. per lb.
fatty acid, 1c. per lb.
ref., alkali, 2c. per lb
clarif., 2c. per lb.
Tallow oil, acidless, 1c. per lb.
Tung oil, ½c. per lb.

Prices Reduced

Olive oil, edible, 75c. per gal.
Tall oil, 1c. per lb.

Comparative Price Indexes

(100=August 1, 1914)

Last week.	Prev. week.	Last month.	Last year.
220.3	213.4	170.4	210.0

(For Current Prices see Page 9)

can oil were noted at New York last week. Sales of this soil were reported on the basis of $5.50 to $5.75 per gallon, drums, duty paid, according to quantity. Spanish oil entirely nominal at $6.25, same basis.

Peanut—Crude oil was scarce and higher. One car was reported sold at 25c. tankcars, f.o.b. Southeast an advance of ½c. per pound. No new crop trades have been reported but the government is selling a few hundred tons of peanuts this week for crushing and it is expected the oil will bring between 23c. and 24c.

Department of Agriculture has announced that a referendum on peanut marketing quotas for the 1948, 1949, and 1950 crops will be held Tuesday, December 9, 1947. All persons engaged in the production of more than one acre of peanuts in 1947 are eligible to vote. This includes tenants, sharecroppers, and owners who share in the proceeds of the 1947 crop.

Soybean—Prices were raised 3c. per pound last week, as a result of the sharp advance in soybeans. Offerings were scarce with producers practically out of the market. Crude oil sales for October were reported from 22c. to 22½c. per pound, tankcars, mill, with scattered sales at 23c. in the South late in the week. December was sold at 21c. and 21½c. tankcars, mills, and January-March delivery was nominal at the same level. Refined alkali and clarified were lifted 2c. per pound. The former was quoted at 24.63c. per pound tankcars New York delivery, and the latter at 23.13c., same basis.

Prices of refined bleachable soybean oil, in tankcars on the N. Y. Produce Exchange for the week ended October 3, follows:—

	Sales	High	Low	Close
		Cents per pound		
October	..	..	..	22N
December	..	..	..	22N
January	..	..	..	21@23
March	..	..	..	21@23¼
May	..	..	..	22N
July	..	..	..	22N
September	..	..	..	22N

Total sales—None.

Tall—Crude and refined oil was marked down 1c. per pound. Trading has improved and sizable quantities were taken by the paint and other consuming industries at the lower levels. Inquiry for nearby needs also was more active. Crude was nominal at $40 to $45 per ton, tankcars, works. Refined was quoted at 5¾c. tankcars, works, 6¾c., drums, carlots, and 7¼c. for lesser quantities.

Tung—Market continued unsettled under keen competition last week with trading reported at 22½c. and 22¾c. per pound, tankcars, New York basis, for nearby delivery. Offerings were not liberal and the market appeared steadier later in the week at 23c. to 23½c., depending upon seller. Drums were nominal at 25c. per pound, carlots and at 26c. for smaller quantities.

Total figures of warehouse stocks of tung oil in the United States as of August 31 have been revised to 45,452,000 pounds by the Bureau of Census, instead of 60,870,000 pound indicated in the Bureau's August report.

Los Angeles.—Movement of all vegetable oils slowed down somewhat this week, with prices of coconut and tung increased. Oils, in tankcars, were quoted as follows:—Castor, cold pressed, 27c. per pound; coconut, crude, 20c. per pound; cottonseed, crude, 22½c. per pound, f.o.b. Texas; mustardseed, 18c. per pound; peanut, crude, 23c. per pound, f.o.b. Los Angeles; sesameseed, crude, 25c. per pound; soybean, 21½c., f.o.b. Los Angeles; tung, 23¼c. per pound, San Francisco.

Fats and Greases

Greases—With offerings practically nil, and a good consuming inquiry, this market continued in a strong position. Trading was light. Quotations were unchanged and firm reflecting the strength in tallow and competing oils.

Lard—This market was firmer last week with grains and hogs. Trading was reported active at the higher levels. Lard stocks in Chicago totaled 76,554,600 pounds, September 30, compared with 81,717,750 pounds, September 15 and 90,130,900 pounds, September 1, and 2,801,470 pounds, September 30, last year.

Agriculture Department has announced specific levels at which it will support producer prices of hogs between now and March 31 should market quotations drop to those levels.

Prices would have to decline more than $12 a hundred pounds from the present Chicago average of about $29—or about 43 percent—before the support program would become operative. The weekly support prices for the six months period are based on an annual average of $16.15 per hundred

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SPOT AND FUTURE DELIVERIES

pounds, Chicago basis. Support prices will range from a high of $16.75, Chicago basis, for the first week in October, when marketings are normally small to a low of $14.50 per hundred pounds for the four weeks in December, when marketings are normally the largest of the year.

Differentials for other markets which have been provided for in previous hog prices support programs, are being continued.

Tallow—Trading in small lots of fancy were reported at 21c. per pound, with some consumers' bids at the same figure not interesting producers. Recent trading took the bulk of the production for prompt delivery, with the result that suppliers were not offering and preferred to await further developments in advancing trend of competing materials.

Animal Oils

Grease Oil—Prices were raised 1c. per pound for all grades. Demand was good and market was strong with pressing stock. No. 1, was quoted at 27¼c. to 27¾c. per pound, drums, as to quantity and winter strained, 28¼c. to 28¾c.

Oleo Oil—Extra oil was higher and quoted nominally at 27c. per pound, drums, Chicago. Inquiry was active, with offerings scarce.

Tallow Oil—Market was firmer and acidless was increased 1c. to 26½c. per pound, drums, Chicago.

Fish Oils

Menhaden—Reflecting the higher cost of crude oil which was 19c. bid and 20c. per pound asked loose, works, refined grades were raised 1c. per pound. Demand was light and chiefly for immediate needs. Light pressed was quoted at 20c. per pound, tankcars and 21c. in drums. Alkali refined 22½c. and kettle bodied, 24c. in drums.

Sardine—Refined grades were increased 1c. per pound. Light pressed was quoted at 20c. per pound, tankcars and 21c. drums; refined alkali, 22½c. and kettle bodied, 24c. in drums. Crude oil was entirely nominal at 19c. per pound, tankcars, f.o.b. Pacific coast.

Los Angeles.—Light-of-moon period the past week curtailed fishing activities. Total landings are far behind those of last year. The catch for the season through September 29 is 9,565 tons, compared with 16,134 tons last year, this date.

Fatty Acids

Further advances in crude oils, resulted in an increase of 1c. per pound in corn, cottonseed, peanut and soybean fatty acids. Quotations were entirely nominal, owing to the higher trend of the oil market.

Stearic Acid—Market continued strong with tallow and grease and the trend of quotations was upward with the higher cost and scarcity of pressing stock. Business was fairly active at the recent price advance.

Cake and Meal

Cottonseed Meal—Demand continues good and crushers are able to keep fairly well sold up against current seed receipts. Sacked 41 percent sold early in the week at $90, f.o.b. Southeastern mills for October shipment and some late trades have been reported at $92. Sacked 36 percent is offered at $80 per ton. Valley mills seem fairly well sold up for October and are asking $85 November for 41 percent loose slab cake.

Linseed Meal—Higher seed prices improved the demand for meal. Market was steady at $84 to $86 per ton, western mills.

Minneapolis.—Demand for meal picked up as seed prices firmed and crusher quotations were at $34@36 for spot delivery. Discounts of $1.00 per month were offered for November-December shipment. Instructions were in good volume and meal shipments continued at record-breaking levels.

Shipments of linseed meal, in pounds, were as follows:—

	1947-48	1946-47
This week	6,749,000	7,380,000
Since Sept. 1	47,220,000	35,540,000

Peanut Meal—So far the government has only sold peanuts for crushing in limited volume and October production of meal is expected to be small. One Alabama crusher sold a small lot last week sacked 45 percent at $95 and additional offerings are expected to bring $100 for shipment prompt in October. The demand is very active and it is certain that the October production is not going to be enough for everybody.

Soybean Meal—Market continued to show strength and one car sacked 41 percent sold at $118 f.o.b. Atlanta. Sales for last half October are being made at $96.50 bulk and $100.75 bagged f.o.b. cars Decatur. Nearly every processor has a different idea of values for shipment November forward.

Waxes

Beeswax—Quiet demand was reported for most grades last week. Prices were unchanged and nominal, except for bleached white which was increased owing to the shrinkage of supplies. Slabs were quoted at 67c. to 70c. per pound and cakes at 68c. to 72c., depending upon quantity.

Ouricury—Prices continued to advance under a heavy demand for spot and prompt arrival. Crude was raised 4c. to 64c. to 65c. per pound, and refined to 70c. to 73c. on the spot. Imports of 910 bags at New York last week were reported sold before arrival.

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Amcon Corporation. 80
American Agricultural Chemical Co. 1
American British Chem. Supplies, Inc. 39
American Can Co 27
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American Firstoline Corp. 77
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American Platinum Co. 45
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5—Stainless Steel Kettles, 60 to 500 gals.
1—600 gal. Jacketed Kettle, with reversible screw type agitator.
1—Patterson Rubber-Lined Mixing Tank, 3' dia. x 6' deep, with Type "R" Uni-Power Drive.
4—Pfaudler jacketed glass-lined Kettles, 60 gallon capacity, stainless steel, double S.S. agitators with motors.
5—Pfaudler glass-lined Tanks, 40 gal.
2—500 gal. glass-lined Tanks.

CENTRIFUGALS—CENTRIFUGES

1—A.T.&M. 40" Suspended Type Centrifugals, 40 HP, 1,200 RPM.
7—Tolhurst 32", 40", 48" Self-Balancing Type Centrifugals, steel and copper baskets.
1—Fletcher 30" Suspended Type Centrifugal, steel basket, with 10 HP, 1,150 RPM.
1—A. T. & M. 18" Suspended Type Centrifugal, Stainless Basket, motor driven.
3—Sharples No. 16 Vaportite Centrifuges, with stainless steel bowls, explosion-proof motors.
1—Sharples No. 6 Pressurtite Centrifuge.
1—Sharples No. 6 Super Centrifuge.
2—De Laval No. 600 Clarifiers.

MIXERS

1—Baker Perkins, Type VI, Class BB, size 15, jacketed sigma blades.
2—W.&P. ½, 9 and 20 gals.
1—Readco 4 gal., double arm, stainless.
3—New 1,000 lb. Dry Powder, motor driven.
2—2,000 and 3,000 lb. Dry Powder.
2—Portable Agitators, ¼ HP, 400 RPM.
6—80 & 100 gal. Lead Mixers.

DRYERS

1—Lectrodryer C-75, 750 C.F.M., activated aluminum.
1—American 42" x 10' Atmospheric Double Drum.
1—22" x 60" Atmospheric Drum.
1—Buflovak Vacuum Drum, 24" x 20".
2—Rotary Vacuum 5' x 33', 2' x 6', 30" x 8'.
1—Atmospheric 3 Truck, steam heated, 700 sq. ft.
1—Rotary Steam Tube Dryer, 6' x 25'.

MILLS—PULVERIZERS

1—Eppenbach Colloid Mill, stainless steel, ½ H.P.
1—Lehman 3-Roller Mill, 7" x 14".
1—Hardinge 6' x 22" Conical Steel-Lined Ball Mill, with feeder and 10' Gayco Air Separator.
1—Hardinge 36" x 24" Conical Steel-Lined Ball Mill.
1—Gruendler Master Hammer Mill, 10 HP motor.
3—Ball & Jewell No. 0 and No. 1 Rotary Cutters.
1—Porcelain-Lined Pebble Mill, 2' x 3'.
1—Abbe 10 Jar Mill, with 10 ¼ gal. jars.
2—No. 3 Eureka Jar Mills, 15 gal. capacity, motor driven.

EVAPORATORS AND STILLS

1—5' All Copper Evaporator, vertical tubes, 500 sq. ft.
6—Copper and Iron Vacuum Pans, 4', 5', 6', 8', 10'.
3—Copper Stills, 100, 150, 400 gals.

MISCELLANEOUS

1—Large Lot of Celeron Fittings, Parts and Piping, Brand New.
1,500 ft.—16", 18", 24" Roller Conveyor.
25—Stokes, Colton Tablet Machines, single and rotary, ½" to 2¼" single and rotary, ½" to 2½".
3—Bucket Elevators, 25', 28', 35' centers.
25—Oliver "Olivite" Acid Resisting 2" Centrifugal Pumps.
15—Duriron, Lead, Haveg, Bronze & Stainless Centrifugal Pumps, ½" to 3".
2—Kiefer Visco Fillers.
3—Robinson & Rotex Sifters, single and triple deck.

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14—Tolhurst 40" Suspended Type Centrifugals, Bottom Discharge. Also 26" Rubber-Lined.
12—Sperry & Shriver, 30", 32" & 42" sq. Iron Filter Presses.

2—Sperry 18" sq. Lead Filter Presses.
3—Baker Perkins heavy duty Jack. Mixers, 100, 50, 20 & 9 gals.
1—Devine No. 3 late type Vac. Shelf Dryer Elec. Heated.
2—Stokes RD4 Rotary Tablet Machines, 16 die openings 1 3/16" dia. Also 5/8", 1", 1¼".
2—Jones Type E & K, automatic Soap Presses.
1—Huber 25 ton Para Block Press.
11—Sharples No. 5A Stainless Oil Centrifuges, late type, 2 H.P.
1—Manton Gaulin, type 300, Stainless Steel Homogenizer.
1—Marco Model 200 Stainless Steel Homogenizer.
10—Day Dry Mixers, 50, 100, 300, 400, 600 & 1,000 lbs.
3—Stokes & Day Powder Fillers.
1—Hardinge 3'x8' Conical Ball Mill.
1—Knapp Can Labeler.
1—Tyler-Hummer 3' x 6' surface screen.
75—36" x 36" Cast Iron Filter Press Plates and Frames.
1—Stokes No. 149 B Vac. Pump.
1—Gruendler 7" x 10" Jaw Crusher.
1—Dings Magnetic Separator, 12" Magnetic Pulley.
1—Sturtevant 36" Rock Emery Mill.
1—Gruendler 5" x 6" Jaw Crusher.
1—Sharples No. 6 Centrifuge.
1—Sauco Jr. Vac. Bottle Filler.
6—Pfaudler Glass-Lined Jack. Agit. Kettles, 250, 400, 500 gals.
25—New Stainless Steel Tanks, 100 to 1,000 gals
10—Stainless steel, jacketed Kettles, new & used, 40, 60, 80 & 375 gals., some agitated.
6—Aluminum jack. Kettles, 60 to 100 gals.
18—Copper jack. Kettles, 2, 20, 50, 75, 100, 250 & 350 gals., some agitated.
15—New, Portable, Electric Agitators, ¼ to 2 H.P.
1—Abbe 2 Jar Mill, 2 gal. Jars.
1—Hammer Mill, 7½ H.P.
1—Williams No. 3 "Regular" type Hammer Mill.
1—Stedman 32" Single Roll Crusher.
1—Jeffrey 18" x 48" Single Deck Conveyor Screen.
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New 40 gal. Pony Mixers.
4—Day Pot Mills, 24" x 32" dia.
8—Centrifugals, 20", 26", 30", 40".
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10—Closed steel Kettles & Stills, up to 1,000 gals.
1—250 gal. lead-lined Kettle.
1—700 gal. steel copper-lined vac. Filter Tank.
1—Dopp 50 gal. jacketed Kettle.
1—Blystone 2,000 lb. horiz. Spiral & Paddles Steel Mixer.
6—Horiz. Mixers, 20 to 250 gal., single & double arm.
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2—Worthington 12" x 12" x 12" Vac. Pumps.
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2—Rotary Screens, 18" x 72".
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8—Stone Mills, 8" to 32".
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15—Sharples Super Pressurite Centrifuges, 3 HP Explosion-Proof Motors.
2—Pfaudler Jacketed Stainless Steel Tanks, 13,500-gals.
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5—Steel Storage Tanks, 8' dia., 20' long.

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1—No. 1 Gruendler Pulverizer & 7½ HP motor.
1—No. 3 Mikro Pulverizer & Motors.
1—No. 2 Mikro Pulverizer & Motors.
1—5 ft. Gayco Separator & 5 HP motor.
1—36" Raymond Separator & 3 HP Motor.
1—Model 100 Sprout Waldron "V" Style Mixer.
8—24" x 24" Sperry Plate & Frame Iron filter presses.
1—20" x 20" Shriver Plate and frame Wood Filter Press.
1—6 ft. dia. x 6 ft. long Thropp Silex Lined Pebble Mill.
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1—5-story bag conveyor with outside covering.
1—Johnson 36" x 36" iron filter press, 44 1½" plates and frames, open delivery, ratchet closing.
1—Zephyr 36" x 70" tumbling washer with 2 HP motor.
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New Elec. Immersion Heaters, stainless, 500 watt, 115 volt, $15.00 ea.
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6—New Cleveo Can Filling Machines.

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For sale: Rubberlined tank, 775 gals., 162 in. long x 32 ft. wide x 36 in. deep with water jacket, open top. Wiwoco Equipment Corporation, 76 Beaver Street, N. Y. BO 9-9051.

Arenco Tube Filling Machine for sale. Has seen little service. Four (4) sets of cups for tube size changes. Late model. Price $3,500 complete. OPD 996.

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2—Tolhurst centrifuges, 26 in., self-balancing, tinned copper baskets, with extra new basket, shaft, and bearings. Colloid Mills—2 in., 3 in., 6 in. Agitated kettle, jacketed, 5 ft. x 8 ft. Storage tank, 4,500 gallons. Lawler Company, Metuchen, N. J.

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3—GRANULATORS, Stokes 43A.

6—BLENDERS, Gemco powder, 25 lb. to 500 lb. cap.

FILLERS

4—Powder, auto., 7 semi-auto., adjustable.

4—Vacuum type for liquid, auto. & semi-auto., adjustable.

1—Viscose type, Karl Kiefer.

FILTERS

2—Shriver 30" x 30", 42 wood plates & frames.

1—Press, 35 recessed plates 30" x 30", C.I.

2—Boswer press, leaf models No. 0 & No. 1.

2—Oliver rotary continuous 8' x 8' & 8' x 14'.

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PHOSPHATE LEASE

United States Department of the Interior, Bureau of Land Management, Washington 25, D. C. Notice is hereby given that sealed bids will be received until 1 p.m., Eastern Standard time, October 23, 1947, for the following described lands situated in Silver Bow and Beaverhead Counties, Montana: lots 7, 8, $SE\frac{1}{4}NW\frac{1}{4}$, $E\frac{1}{2}SW\frac{1}{4}$, $W\frac{1}{2}SE\frac{1}{4}$ sec. 30, lots 1, 2, 3, 5, 6, $NE\frac{1}{4}$, $E\frac{1}{2}NW\frac{1}{4}$, $NE\frac{1}{4}SW\frac{1}{4}$, $NW\frac{1}{4}SE\frac{1}{4}$ sec. 31, $SW\frac{1}{4}NW\frac{1}{4}$ sec. 32, $SW\frac{1}{4}NW\frac{1}{2}$, R. W., $SW\frac{1}{4}SW\frac{1}{4}$ sec. 5, lots 2, 3, $SW\frac{1}{4}NE\frac{1}{4}$, $SE\frac{1}{4}NW\frac{1}{4}$, $SE\frac{1}{4}$ sec. 6, (excluding 20.66 acres embraced in patented mineral survey No. 10063), lots 3, 4, $NE\frac{1}{4}NE\frac{1}{4}$, $SE\frac{1}{4}SW\frac{1}{4}$, $S\frac{1}{2}SE\frac{1}{4}$ sec. 7, $NW\frac{1}{4}$, $N\frac{1}{2}SW\frac{1}{4}$, $SW\frac{1}{4}SW\frac{1}{4}$ sec. 8, $NW\frac{1}{4}NW\frac{1}{4}$, sec. 17, $N\frac{1}{2}N\frac{1}{2}$ sec. 18, T. 2 S., R. 9 W., and the $SE\frac{1}{4}$ sec. 12, T. 2 S., R. 10 W., P.M., 2049.81 acres. This land is offered at a minimum bid of $1 an acre to qualified bidders of the highest cash amounts per acre as a bonus for the privilege of leasing under the phosphate provisions of the act of February 25, 1920 (41 Stat. 451, 30 U.S.C. 211 et seq.), subject to the following conditions: (1) A royalty of 5 percent of the gross value on all run-of-mine, crushed, pulverized, or beneficiated phosphate rock, sold or used by the lessee, for the manufacture of phosphate, and on all associated mineral products produced from the leased land, f.o.b. the point of shipment. Such royalty shall not be less than 15 cents a ton of 2,000 pounds, mine run, for phosphate rock analyzing on a B.P.L. basis 55 percent or less, plus 1 cent a ton for each percent contained B.P.L. above 55 percent, averaged for the royalty period. It is expressly agreed that the Secretary of the Interior may establish reasonable minimum values for the purpose of computing royalty on any phosphate rock and associated mineral products, due consideration being given to the highest price paid for a part or a majority of the production of like quality products for the same general area, the price received by the lessee, posted prices, and other relevant matters. The United States reserves the right to take its royalty in kind. (2) A minimum investment of $100,000 during the first three years of the lease; and (3) A minimum production of 10 tons an acre, beginning with the fourth year of the lease, and otherwise substantially in accordance with the lease form set out in the regulations (43 CFR 196.14) as amended. The bids must be submitted to the Director, Bureau of Land Management, Washington 25, D. C., and each bidder must submit with the bid one-fifth of the amount bid in cash or by certified check on a solvent bank, or by money order, made payable to the order of the Treasurer of the United States, and file the showing of qualifications to receive a lease, required under 43 CFR 196.6(a), (b) and (c), as amended. The envelope shall be plainly marked, "Bid for phosphate lease. Not to be opened before 1 p.m., Eastern Standard Time, October 23, 1947." No bids received after the hour fixed herein for receiving bids will be considered. The remainder of the bonus and the annual rental at the rate of 25 cents per acre must be paid and a corporate surety bond in the sum of $5,000 must be furnished by the successful bidder prior to the issuance of a lease (43 CFR 196.12). The deposits of the unsuccessful bidders will be returned upon acceptance of the successful bid. Bidders are warned against violation of section 59, U. S. Criminal Code, approved March 4, 1909, prohibiting unlawful combination or intimidation of bidders. The right is reserved to reject any and all bids. Fred W. Johnson, Director.

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2—Day 15 Gal. Pony Mixers, M.D.
2—Day "D" Powder Mixers—600 lb. M.D.
1—Howe 2,000 lb. Horiz. Powder Mixer.
1—Howe 3,000 lb. Horiz. Powder Mixer & Sifter, M.D.
1—Day 5,000 lb. Jumbo Mixer, M.D.

MISCELLANEOUS

6—Stokes "E" Single Punch to ¾" dia.
1—Stokes "DD-2" Rotary—31 Hole Head.
1—Stokes Rotary "BB" Tablet Machine.
1—Kopperman 6' Copper Vacuum Pan.
1—No. 5 Sweetland Filter.
1—Rotary Dryer—4' x 10'.
6—Double Drum Atmospheric Dryers, 22" x 38" & 24" x 36".

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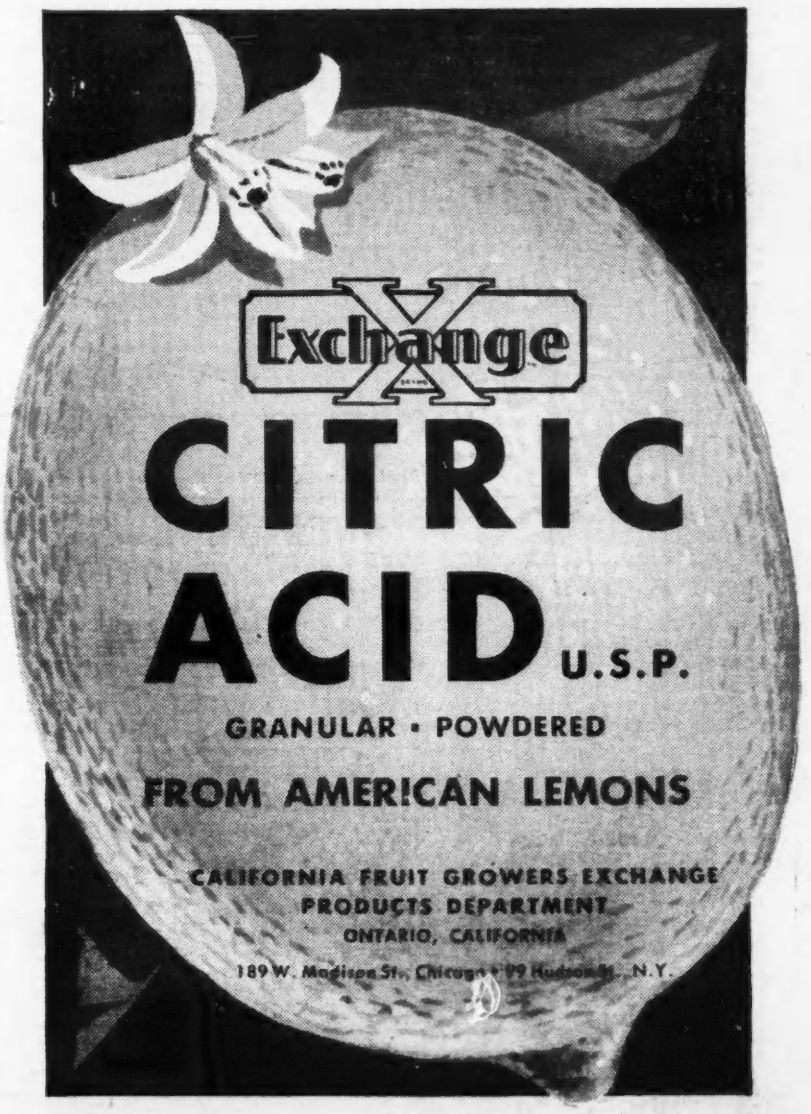

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